BUILD THEM: Butcher Block Countertop | Fireplace Mantel

Extreme How-To®

The Enthusiast's Guide to Home Improvement

HOLIDAY GIFT IDEAS

PLUS:

THE USER-FRIENDLY WAY TO
COLOR CONCRETE

BUILD SHELVES
WITH POCKET-HOLE JOINERY

Holiday Digital 2010
www.extremehowto.com

TG® KIK® PRO SERIES

www.MyTGTools.com

YOUR ONE SOURCE SOLUTION

FASTER
EASIER
CLEANER

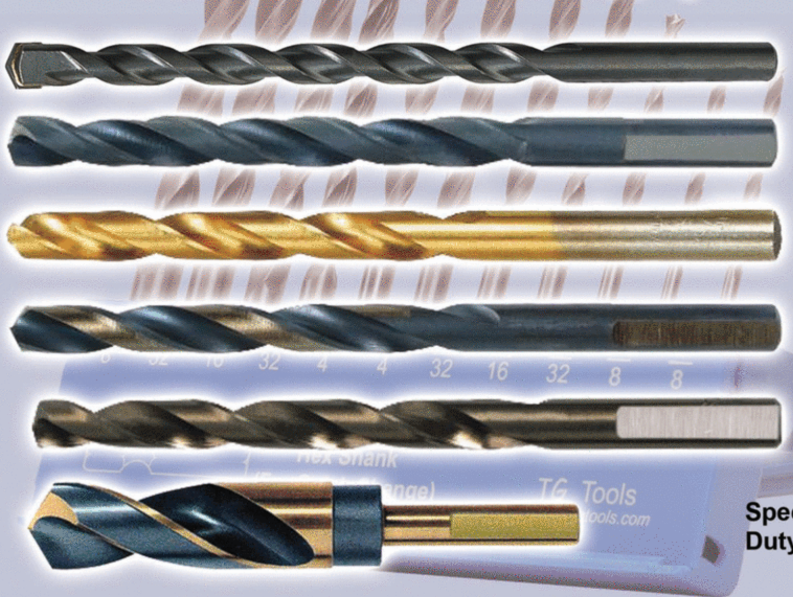
TG 1 1/4"
TG 1"
1/4
1 1/4
7/8
3/4
5/8
1/2
3/8
Hex Shank
(For Quick Change)
TG Tools
www.mytgtools.com
TG 7/8"

KIK® Forstner Bit

KIK® HS Brad Point

KIK® Spade Bit

135° Split Point start from Contact
3-flat shank, less chuck slippage


32
16
32
4
4
32
16
32
8
8
Hex Shank
TG Tools
tools.com

Concrete	**Stronger, Faster Less Walking**
High Speed	**General Purpose**
Titanium Coated High Speed	**Longer Lasting**
Heavy Duty	**Heavy Duty Steel Usage**
Solid Cobalt	**Heavy Duty Steel Usage**
S&D	**Special Use Heavy Duty Steel Usage**

www.MyTGTools.com 1-800-687-4122

TG® Tools • 1010 Cedar Ave. • St. Charles, IL 60174 • ph 800-687-4122 • fax 630-584-4722

Electric Cables / Water Tubing versus STEP Warmfloor™ Flat Element

STEP Warmfloor™ is a low voltage system that operates at **24 volts (AC or DC)**

STEP Warmfloor™ heating elements are only **1.2 mm thick**

STEP Warmfloor™ heating elements are made of **20% recycled material**

During the manufacturing process, there is **0% waste**

STEP Warmfloor™ performs with **100% efficiency**

FIGURE 1

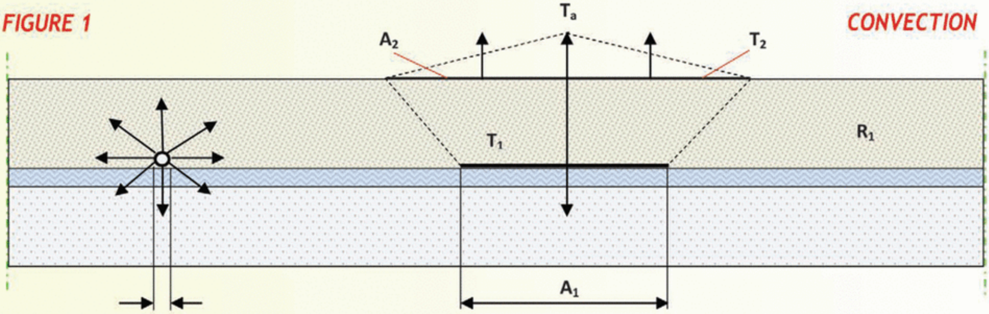


Figure 1 shows a cross sectional area of a floor with a cable or tubing and STEP Warmfloor™ flat element.

Heating System	*Surface Area (A_2)*	*Required Heat Output*
STEP warmfloor™ …a step ahead	2 ft^2	4.5 watts / ft^2
Width = 1 ft *Length = 1 ft*	A typical installation requires 4.5 watts/ft^2	
Electric Cables	0.78 ft^2	4.5 W/ft^2 x 2.5 = 11.25 watts / ft^2
Diameter = 0.07 in. *Length = 4 ft (double-wire, 3 in. spacing)*	2 ft^2 / 0.78 ft^2 = 2.5 times more POWER required	
Water Tubing	0.96 ft^2	4.5 W/ft^2 x 2.08 = 9.36 watts / ft^2
Diameter = 0.5 in. *Length = 2 ft (6 in. spacing)*	2 ft^2 / 0.96 ft^2 = 2.08 times more POWER required	

ISO 9001:2008 REGISTERED FIRM

INTERTEK ETL LISTED

CE

Manufactured in the U.S.A.

warmfloor.com / 877-STEP-TEC

2.5 times more efficient than heating cables.

STEP warmfloor™
...a step ahead

Sustainable.
Biodegradable.

Energy Efficient.
Low Voltage.

30 years
warmfloor.com
877-STEP-TEC

Self-regulating, electric radiant heat. Endless possibilities.

TG® KIK® PRO SERIES

www.MyTGTools.com

YOUR ONE SOURCE SOLUTION

FASTER
EASIER
CLEANER

KIK® Forstner Bit
KIK® HS Brad Point
KIK® Spade Bit
(For Quick Change)
TG Tools

135° Split Point start from Contact
3-flat shank, less chuck slippage

Concrete	Stronger, Faster Less Walking
High Speed	General Purpose
Titanium Coated High Speed	Longer Lasting
Heavy Duty	Heavy Duty Steel Usage
Solid Cobalt	Heavy Duty Steel Usage
S&D	Special Use Heavy Duty Steel Usage

Don't Miss Our Half-Hour Interviews:

November 13th 4:00 PM
December 4th 11:30 AM
January 8th 2011 5:00 PM
February 5th 2011 11:00 AM

Home Talk USA with Michael King The Cajun Contractor

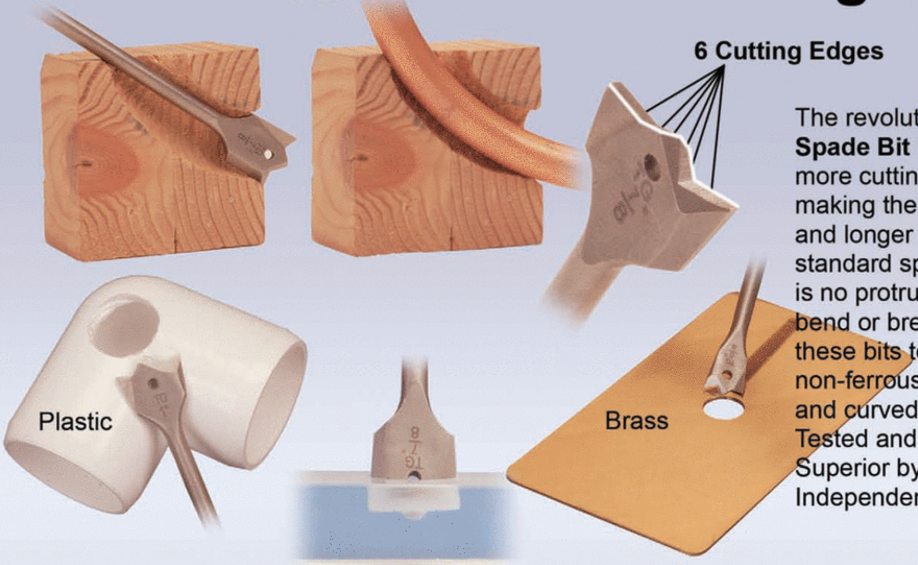
ON AIR

lifestyle TalkRadio Network

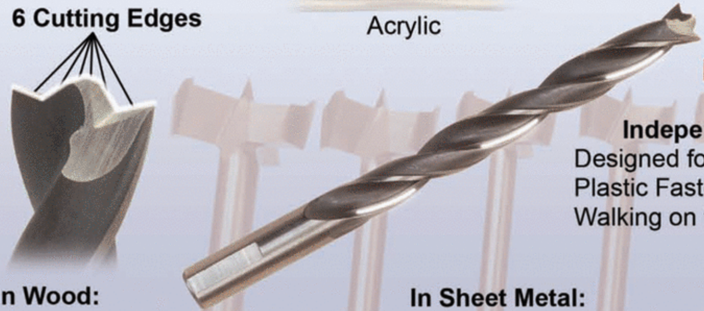
www.MyTGTools.com/kik1.php 1-800-687-4122

TG® Tools • 1010 Cedar Ave. • St. Charles, IL 60174 • ph 800-687-4122 • fax 630-584-4722

We Put a KIK® in Your Boring Tasks!



The revolutionary KIK® **Spade Bit** has over 30% more cutting surface making them much faster and longer lasting than standard spade bits. There is no protruding tang to bend or break allowing these bits to even bore non-ferrous sheet metals and curved holes too! Tested and Proven Superior by an Independent Lab.



KIK® HS Brad Point

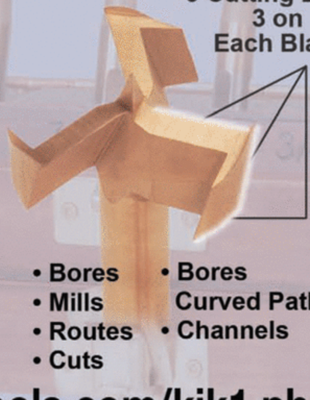
Independent Lab Tested and Proven

Designed for Drilling Sheet Metal, Wood and Plastic Faster, Cleaner with Longer Life and no Walking on the Surface.

In Wood:
- **Approximately 100% Faster** Compared to Common Brad Point
- **40% Faster** Compared to Standard Drill Bits

In Sheet Metal:
- **50% Cleaner** Entry
- Consistently **Round Hole**
- **20% Less Walking**

In Acrylic:
- **No cracking** Drilling Acrylic
- **150% Faster** Compared to Standard Drills
- **690% Faster** Than Other Brad Points



KIK® Forstner Bit

Proven Superior by an Independent Lab

Cleaner Entry and Exit

- **Titanium Coated**
- **3-Flat Shank**

Open Head Design for no Clogging
Easy Drilling and Direction Control

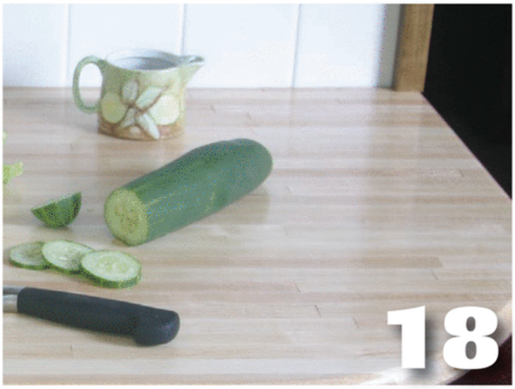
- **Bores through Hard Woods 100% Faster** Compared to Standard Forstners
- **Bores**
- **Mills**
- **Routes**
- **Cuts**
- **Bores Curved Paths**
- **Channels**
- **Bores Through Acrylics Cleanly Without Melting** Able to Bore 90 Degree Curved Paths

www.MyTGTools.com/kik1.php 1-800-687-4122

TG® Tools • 1010 Cedar Ave. • St. Charles, IL 60174 • ph 800-687-4122 • fax 630-584-4722

CONTENTS

Holiday Digital **2010**



FEATURES

18 Build a Butcher Block Countertop
A Woodworking Classic

32 Making a Mantel
This classic mantel features an arched frieze and can be built using basic carpentry skills.

48 Holiday Gift Ideas
For Your Favorite Home Enthusiast

62 Shelf Life
Here's a look at a basic case of shelves built with pocket-hole joinery.

DEPARTMENTS

6 Q & A

10 Project Next
Target: Termites

76 Material Market
The User-Friendly Way to Color Concrete

84 Hot Products
DIY Dorm Room Remodel

JOBSTAND
ROCKWELL
48

Cover photos: © Paddler and © Monika 3 Steps Ahead

A NEW WEBSITE. AN EXPERT A CLICK AWAY.
JUST ONE MORE THING YOU CAN
MAKE WITH SAKRETE.

www.sakrete.com

From general questions to project calculators to one-on-one support, we've got you covered at 1-866-SAKRETE or at Sakrete.com. Our new website allows you to quickly locate products, technical information as well as "how-to" videos. At Sakrete, we don't just provide professional-grade products, we offer unmatched customer service and support. So no matter what your project is, our team can help you make it right.

SAKRETE®

www.sakrete.com

Q&A

Got a ?

Questions About Home Building, Remodeling? Have Your Own How-To Tip? Visit our website at ***www.extremehowto.com*** *and click on Home Repair Forum.*

Q: *My mother wants me to install a wall switch for her ceiling fan, so she doesn't have to reach so high. Is this a DIY project, or should I enlist an electrician?*

A: Installing a wall switch is not incredibly difficult but does require opening walls, running cable and making electrical connections. First, shut off power to the circuit supplying power to the fan and remove it to expose the fixture box. Plan a wire pathway so it crosses as few framing members as possible. This may require you to cut an access hole in the ceiling and/or wall and drill a hole through a stud or joist. Run cable from the fixture box to the switch location. If the cable path is obstructed by insulation, install conduit as a "tunnel" to run the wire. Some local codes may require the conduit in all applications. Splice the color-coded wires with twist connections and wire nuts at both the fixture box and the new switch box. Restore power, reinstall the fan and repair the wall openings.

……

Q: *What's the easiest way to lubricate windows?*

A: First, clean the tracks of dirt and debris with a vacuum and even an old toothbrush. Vinyl and aluminum window tracks can be cleaned with water and soap. For wooden windows, coat the tracks with a waterproof wax. For metal windows you can use a variety of lubricants, such as silicone spray, penetrating oil or powdered graphite.

www.AS170.com
NEW HEAVY DUTY MOTOR
AS170
BRICK + MORTAR SAW
THINK OUTSIDE THE CIRCLE.
TOLL FREE 866-517-7869
ARBORTECH
CUTS SQUARE
CUTS DEEP
CUTS SAFE
CUTS WITH LOW DUST
BRICK + MORTAR SAW

WE TOLD THE ENGINEERS TO MAKE IT STRONGER.

THEY CAME BACK WITH STRONGER STAINABLE HEAT-RESISTANT AND WATERPROOF.

SHOWOFFS.

NEW
ELMER'S
CARPENTER'S
WOOD GLUE

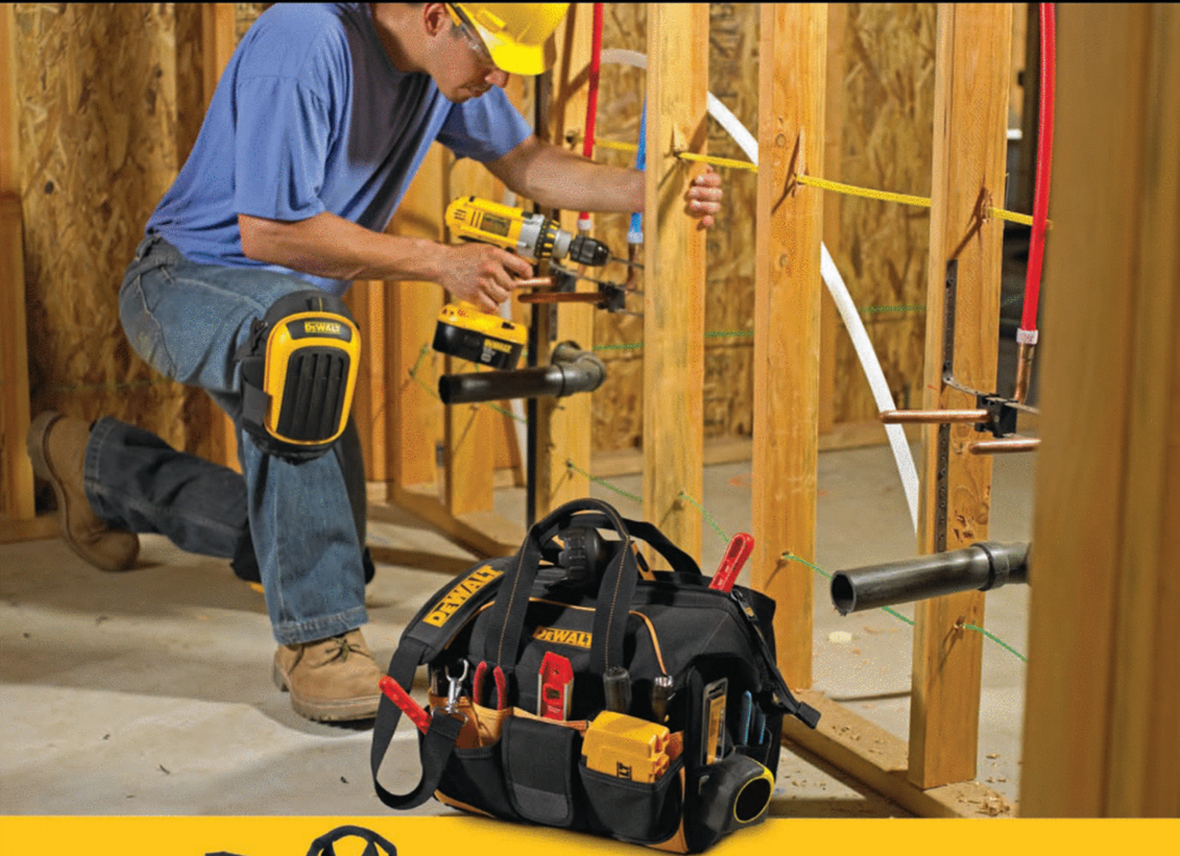
New Wood Glue MAX from Elmer's. Our most advanced formula yet, it's the only woodworking adhesive on the market that's both waterproof and stainable.

For interior projects, check out the new, stronger formula of Elmer's Carpenter's Wood Glue.

Visit elmers.com/diy for helpful woodworking tips and videos.

NEW WATERPROOF & STAINABLE FORMULA!
ELMER'S
CARPENTER'S
WOOD GLUE MAX
WATERPROOF & STAINABLE
Bonds Stronger than Wood
Resists Heat, Mold & Mildew
Sandable & Paintable
Easy Water Cleanup
INTERIOR / EXTERIOR

DEWALT® WORK GEAR JUST GOT TOUGHER™



The leader in power tools launches a comprehensive line of tool belts, kneepads, soft-side tool carriers, tool holders, and accessories.

Workers can now get the same level of durability and performance they rely on from DEWALT power tools in work gear. Engineered with innovative features and impressive designs, DEWALT offers users both tough and functional work gear solutions.

Call today, or visit **www.DEWALTworkgear.com** to get a first-hand look at the industry's new line of jobsite work gear.

www.DEWALTworkgear.com 1-888-5 DEWALT

Copyright © 2009 DEWALT. DEWALT® and GUARANTEED TOUGH® are the registered trademarks of DEWALT Industrial Tool Co. used under license. All right reserved. The yellow and black color scheme is a trademark for DEWALT power tools and accessories.

Manufactured by:
Custom LeatherCraft Mfg. Co., Inc.
South Gate, CA 90280 under license of DEWALT Industrial Tool Co.

GUARANTEED TOUGH.®

Target: Termites

By Tom Matthews

Termites are voracious little critters. In fact, they're one of a few insect colonies that eat continuously. A single colony can consume as much as 2.3 linear feet of 2-by-4 pine in a single year. Imagine if this is occurring at the support beams of your home. And, if you have a termite problem, you're probably dealing with more than a single colony, compounding the problem. It certainly pays to prevent termite infestation.

DIY PREVENTION

Obviously, the best time to treat for termites is before they infest a building, and termite control is an ongoing process. Homeowners can take some action in making their home less attractive to termites. According to the experts at Terminix, some simple steps include removing all wood debris from around your home, especially after new construction and remodeling. Dispose of wood from boards along foundations, tree stumps and roots, as well as relocate any firewood stacked near the house. Eliminate any wood-to-soil contact around your foundation.

Termites also need moisture to survive, so grade the soil around your foundation so it carries water away from the house. Make sure gutters and downspouts are in good repair and diverting water appropriately.

Furthermore, repair any roof or plumbing leaks as soon as possible, which can allow termites to survive above ground in a house. Prevent mulch and soil from touching the siding of your home, which provides a food source and makes it much easier for termites to enter. Use mesh screens on all windows and doors, as well as in ventilation openings for attics and crawlspaces. Seal all nail holes and cracks in exposed wood to help prevent access by dry-wood termites.

WHAT LIES BENEATH

Those superficial DIY steps, however, will not prevent potential entry by subterranean termites mounting an attack from beneath the soil. The best way to prevent subterranean termites is with ongoing service from a professional termite technician. It's a common misconception that the builder of a new home is

A termite technician is checking a bait station. Muddy bait—but no termites.

Aerosol Spraying Made Easier!

INTRODUCING

CAN GUN® 1
Spray Can Tool

NRHA
PACKAGING AND MERCHANDISING AWARDS
Silver Award Winner

Spray Paints • Lubricants • Adhesives & More
CAN GUN 1
Spray Can Tool
Recycled Plastic
MADE IN USA
MEMBER TESTED HANDYMAN AND RECOMMENDED
BUY WITH TOTAL CONFIDENCE
Exclusive FullGrip™ Trigger
Up to 8x Easier to Spray
Professional Results
Easy To Use With Gloves
Highest Grip Comfort
Ergonomic Design & Arthritis-Friendly™
Easy On & Off
Reusable
IMPORTANT: Read ALL INSTRUCTIONS ON BACK BEFORE USE!
UNIVERSAL FIT
For All Standard Spray Cans
Item #02012

Patent Pending - U.S. Design Pat. # D592,953

EXCLUSIVE FEATURES:

- *E-Z Pull* **FullGrip**™ Trigger
- *Up To 8X Easier To Spray**
- *Easy To Use With Gloves*
- Fits ALL Spray Cans!
- Reusable
- Made In USA
- Recycled Plastic
- Suggested List $3.99 ea.

MADE IN USA
5
PP
Recycled Plastic
CAN GUN 1

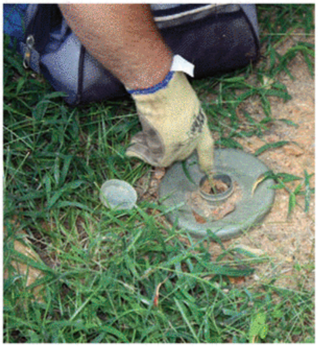
MEMBER TESTED
HANDYMAN
AND RECOMMENDED
BUY WITH TOTAL CONFIDENCE

Avail. At: Ace Hardware • SKU# 1390657
Lee Valley Tools • P.N.# 27K0690
Tractor Supply • SKU# 1038713

Call Now
800.743.0115

up to
8X EASIER TO SPRAY
* than other products in this category.

©2010 SafeWorld™ Int'l., Inc. info@cangun1.com cangun1.com



After removing the bait cap, the technician can already see signs of termite damage.

responsible for soil pretreatment for control of subterranean termites during construction. Actually, that only holds true in a few states. It is usually the mortgage lender that requires professional treatment, especially in termite-prone areas. Even if ongoing professional service isn't required, it's usually a good idea. Exterminating termites requires the use of powerful chemicals that can be dangerous to use for anyone without special training.

Typically, a professional termite technician will chemically treat your home's foundation and wood components to prevent or eliminate a termite outbreak. Afterward, the technician will usually offer you a bond. A termite bond is basically a contract stating that the service provider will return to your home annually to inspect for any further termite activity. Every year, the homeowner is required to pay a fee for the continued inspection as well as the actual bond. Despite the expense, the prospect of termite infestation would be much more costly. Furthermore, many of the professionals and/or the chemical products they use are guaranteed, under certain terms and conditions (such as professional application).

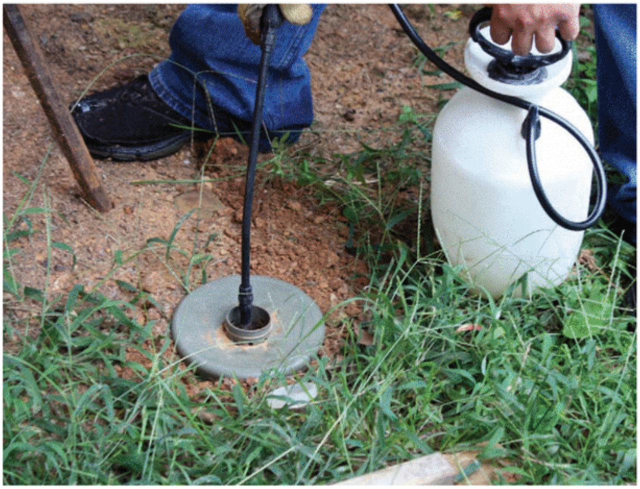
A standard method to detect and deter termite activity is to install in-ground bait stations. These are bottomless containers

New & Improved!
Easily secured to work surface or each other with New Lock & Tab System.
PAINTER'S PYRAMID®
PAINT WITHOUT THE WAIT
painterspyramid.com
U.S. and international intellectual property rights secured • K & M of VA, Incorporated

NEW!
SLIDE N PUMP™
• Easy to use... just attach hoses to both ends
• Versatile pump and siphon initiation device
• Great for professionals, homeowners and hobbyists
The easy & affordable way to move water anywhere.
Two convenient sizes!
slide-n-pump.com
Patented • K & M of VA, Incorporated

non-repellent pesticide, the termites return to the colony where the poison spreads to the other termites. The application of this type of termite treatment is called "trenching and rodding," and may require drilling holes through slabs or other hard surfaces adjacent to the foundation of your home for a continuous shield of protection. A technician may also treat termite-conducive areas from the interior of your home, depending on the extent of any infestation or damage.

Ben Franklin quipped the famous line, "An ounce of prevention is worth a pound of cure," and I'm told by some very reputable pest technicians that he was definitely speaking of termite control. Talk to your local pest-control professional to determine the best approach to protect your home from these wood-chomping mini-monsters. **EHT**



The technician reloads the termite bait into the bait station and adds new pesticide. The bait station has provided a warning that this is one termite-prone area to keep an eye on.

"I fixed it faster than I broke it!"

Endless Versatility:

- Make those emergency repairs where they happen: at home, at work, on the road, any where at all
- Save money by fixing rather than replacing
- Use the welding powder to fill holes and cracks and reinforce repairs

"It Was Amazing!"

The RapidFix Difference:

- Convenient, non-clog, nozzles allow for pin-point application of Adhesive and Welding Powder
- Adhesive activates when you want. Press parts together, removing the air, and the bond is created. Wipe away any excess adhesive

Will NOT Dry Out in Bottle Guaranteed for 12 Months!

RAPIDFIX DUAL ADHESIVE SYSTEM Beyond Super Glue!

See this amazing product in action Go to YouTube.com ...search "RapidFix"

WWW.RAPID-FIX.COM

HOME - WORKSHOP
RAPIDFIX
DUAL ADHESIVE SYSTEM
Beyond Super Glue!
BONDS IN SECONDS
SO STRONG YOU CAN'T TEAR IT APART!
IT'S AMAZING!
Bonds Plastics, Metal & Rubber
Fills Cracks, Gaps & Holes
Instantly Drilled, Sanded & Painted
Will Not Dry Out
Made in USA

ScreenEx®

Do-It-Yourself Screen Kits

Mention this ad to take advantage of our Special Magazine Offer!

Extra Wide Pull Down Screen

8' wide x 84" tall

at a Special Price of $499.00 each

plus $89 shipping & handling

Add MOTORIZED option with REMOTE CONTROL for an additional $299.00 each

plus shipping & handling

Item: 9684

Motorized Remote Control Available

www.screenex.com • 203-720-1299

ARMSTRONG'S
WOOD STAINS

CONTRACTOR
TOUGH
Homeowner
Friendly

Photo courtesy of Ace Restorations, Pleasanton, California

"Long Lasting,
Easy to Apply
and a Breeze
to Maintain"
— Alan Broom,
Professional Wood Restoration Expert
www.shinebritellc.com

Photo courtesy of www.thestainshop.com

Shipped
Directly to
Your Door

For FREE sample cans,
call or email us now

Manufacturers of VOC-Compliant, Oil-Based Wood Finishes
(800) 916-8211 • www.armclark.com

PLEASE VISIT THE WEB'S PREMIERE SITES FOR OUTDOOR WOOD RESTORATION TOPICS AND DISCUSSIONS,
www.thegrimescene.com/forums www.thewoodpros.com

THE GRK FAMILY OF ÜBERGRADE™ DECK FASTENERS

RT/COMPOSITE™ TRIM SCREW

Perfect for composite decking projects in all climates. Its small head and W-Cut™ thread design prevent material splitting and eliminates pre-drilling.

R4™ MULTI PURPOSE SCREW

When in doubt, choose the incredibly versatile multipurpose R4.
It's ideal for particleboard, cement fiberboard, composite decking and wood decking.
It's a self-tapping, self-countersinking marvel.

KAMELEON™ COMPOSITE DECK SCREW

An excellent choice for composite decking. Engineered to cut perfectly clean holes and trap fibers and eliminate mushrooming. Available in six colors.

RSS™ STRUCTURAL SCREW

Say goodbye to lag screws. Self-tapping with high tensile, torque and shear strength, the RSS is a performance beast.
Works great with pre-drilled hardware like hinges and connector plates.

©2010 GRK Fasteners

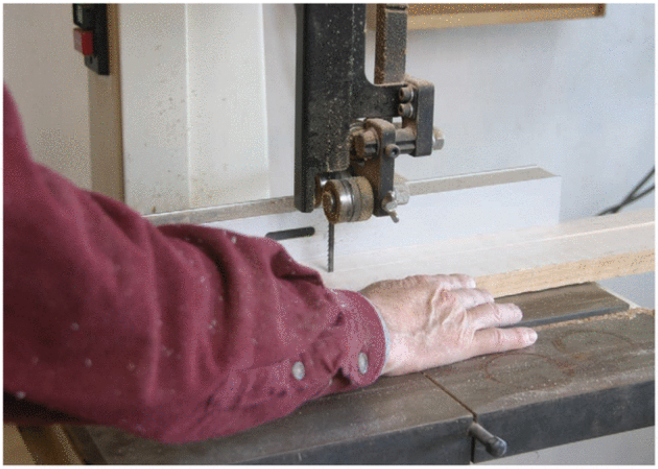
Faith
Hope
Love
And the greatest of these is love.
NABISCO
PREMIUM
SALTINE CRACKERS
The cracker with CRUNCH
thin crisp fresh
LIMITED EDITION
RITZ
Crackers
"When you want a cracker, you want a RITZ!"
CREAM OF WHEAT

Build a BUTCHER BLOCK COUNTERTOP

By Monte Burch

Build a BUTCHER BLOCK COUNTERTOP

Butcher-block kitchen countertops have traditionally been very popular and these days are often used as companion tops with other materials, such as solid-surface tops. In addition to their aesthetic appearance, they can receive hot pans without damage. You can make up your own butcher-block countertop, or the same technique can be used to create cutting boards, or a top for a roll-around cart. The steps in creating the top are fairly easy, but the project does require some special tools, especially for the larger size tops. The top shown is actually one of two tops, with one placed on either side of a kitchen stove. This allows placing hot pans or dishes directly from the stove or oven on the countertop to cool.



Butcher-block tops are traditionally made of hard maple. The first step is to saw the maple into strips.

FIRST STEPS

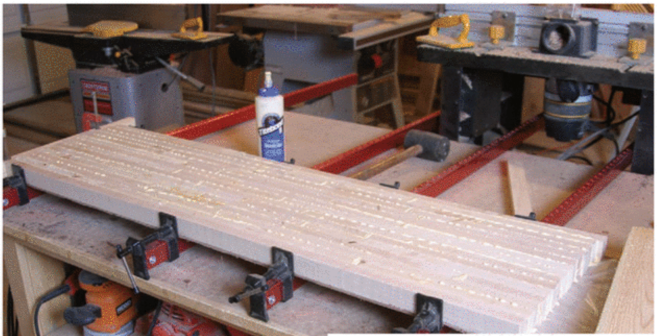
First step is to obtain the wood. Traditionally hard maple is used, because it's extremely hard and has dense wood grain. Because of the shipping weight, it's best to obtain the wood locally. It is also nice to be able to select the pieces you desire. If you have a planer, you can cut the cost by purchasing un-surfaced lumber and running it through the planer. Regardless, it's important the surface be extremely smooth or you'll have glue-up problems. These tops are made up of lumber glued face to face, and the lumber must first be ripped into the widths needed to create the thickness desired. You should add about 1/4 inch to the width. This allows for removing any unevenness in the glue-up process.

The top shown was constructed in two sections, and then the two sections were glued together. This allows for smoothing and surfacing both halves, and then simply sanding down the joint once they are glued together.

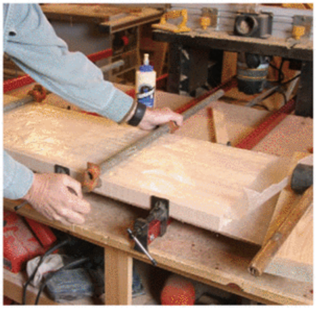
Hard maple can be difficult to rip. In fact, some of the pieces I used featured uneven grain that shut-down even a 2-horsepower table saw when used with a planer or fine-toothed blade. I used a bandsaw to "resaw" the pieces into rough size, and then ran them over a jointer to achieve a more even "face." Butcher blocks

The strips are then crosscut into random lengths.

A gluing platform must be created using a piece of stock 1/4 inch narrower than the top to be glued up, covered with waxed paper, and the strips first dry-laid in place.



In this case the top was first glued in two half sections.



After all strips are coated with glue, the top is covered with waxed paper and the assembly clamped securely together.

are also traditionally constructed of random length pieces. I used a full length piece to begin and another one to end each half. This allowed for more even and easier clamping of the pieces, with the longer pieces holding the shorter ones tightly together.

GLUE AND CLAMP

Bar clamps are used to clamp the pieces together for glue-up. In order to hold the short pieces flat, a support board must first be positioned on the bars. This board should be approximately 1/4 inch narrower than the finished glued-up assembly. Position bar clamps in place on a smooth, flat surface and then lay the support board in place. Cover the board with a sheet of waxed paper. Use C-clamps to clamp a strip of wood to one end of the support board. Make sure it is square with the support board edges.

Cut the first full-length front piece and lay it on the board, fitting it against the front of the bar clamps and against the wood strip clamped to the support board end. Then cut the random length pieces, positioning each in place against each other and against the preceding pieces. The joints should overlap at random lengths, but by at least 3 inches. Once you have all pieces dry-laid in place, including the last full-length piece, remove the last two lengths and lay them aside. Then shift all the remaining pieces to the back edges of the clamps to allow clamping room.

Waterproof or water-resistant glue, such as Titebond II or III should be used. They are FDA approved for indirect contact with cutting boards. Make sure all faces are clean of sawdust and everything is ready. You should work fairly fast, in order to clamp up before the glue sets. Start with the section joining the first or full length piece and apply a fairly heavy bead of glue to its back side and to the ends of each random-length piece. Position the pieces in place, and then continue with each length until you have glue applied to the entire section, including the last full-length piece. Begin applying pressure with the clamps, applying evenly and making sure the joints are tight, even and flat. A second end board can be placed on the opposite end and clamped to squeeze the end joints of the random lengths together as well. Wipe away any excess glue from the top surface and allow the assembly to set at least 24 hours.

SMOOTH IT UP

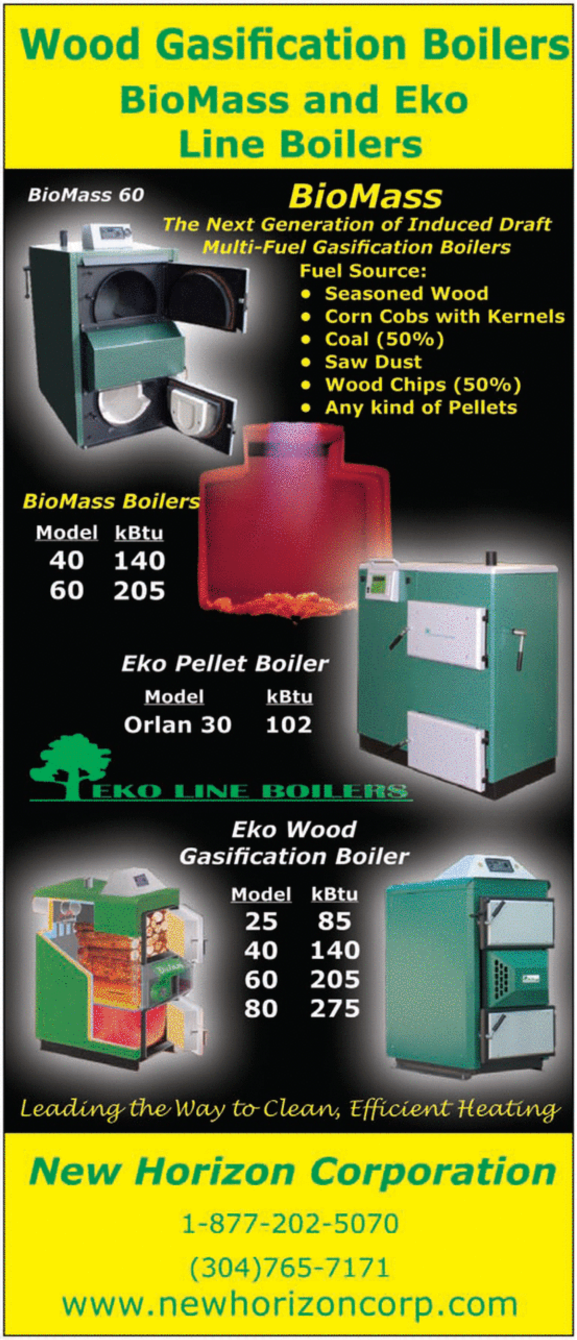
The next step is to smooth the glued-up surface, and this can be done in several ways. The problem is the glue lines will dull many tools. If you have

The glued-up halves are smoothed. The best tool is a drum sander. The Craftsman Drum Sander shown will take an 18-inch-wide board, or sand a 36-inch-wide piece of stock.

A belt sander can also be used to cut away the glue lines and sand the top and bottom surfaces smooth.

lots of time on your hands, a hand smoothing plane can be used in the traditional manner, but the smoothing will dull the plane, requiring frequent sharpening. A belt sander can also be used with coarse paper, followed by finer papers, then followed with a finish sander. You can also use the belt sander to sand away the glue lines, and then run the assembly through a planer. Running the glued-up piece through a planer without first sanding the glue lines will create nicks in the planer blades. Some planers like the WoodMaster have optional sanding drums that can be interchanged for this step.

The top shown had a rounded corner that was cut on the front half using a bandsaw with a support roller on the outfeed end.



Wood Gasification Boilers

BioMass and Eko Line Boilers

BioMass 60

BioMass

The Next Generation of Induced Draft Multi-Fuel Gasification Boilers

Fuel Source:
- Seasoned Wood
- Corn Cobs with Kernels
- Coal (50%)
- Saw Dust
- Wood Chips (50%)
- Any kind of Pellets

BioMass Boilers

Model	kBtu
40	140
60	205

Eko Pellet Boiler

Model	kBtu
Orlan 30	102

EKO LINE BOILERS

Eko Wood Gasification Boiler

Model	kBtu
25	85
40	140
60	205
80	275

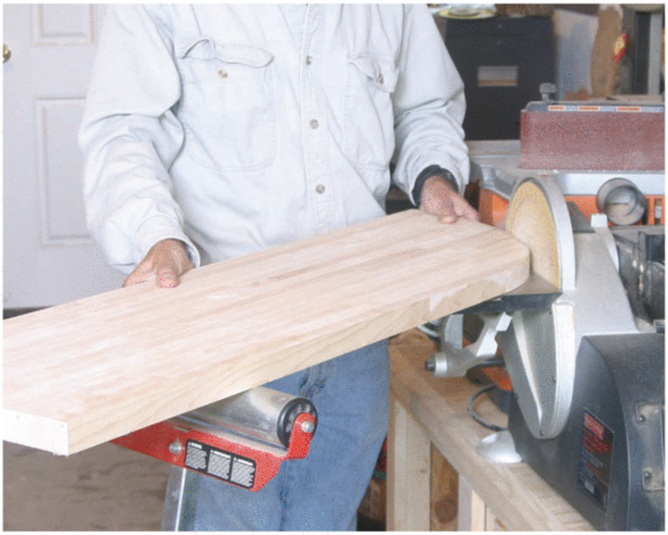
Leading the Way to Clean, Efficient Heating

New Horizon Corporation

1-877-202-5070

(304)765-7171

www.newhorizoncorp.com


The edge of the rounded corner was then sanded smooth with a disc sander.

The ultimate tool for these projects is a drum sander such as the Craftsman Professional 18-inch Drum Sander. If you plan on building several tops, it can save a lot of time and work. Maximum sanding capacity is 18-by-36-by-5 inches, which makes it easy to sand the 24-inch-wide kitchen countertop shown.

Regardless of the method used, completely sand and smooth both top and bottom sides. Then inspect for any open joints. The top must be made completely waterproof so water can't run down into the cabinet below. Refill any cracks with glue, allow to set, then sand down smooth.

Because one end of the top shown was cut in a radius, this curve was first laid out and the

Kitchens • Foyers • Bathroom Floors
Tub Enclosures • Shower Stalls • Fireplaces

Don't replace your tile floor when you can restore it to LIKE NEW!

All-In-One Grout Color Sealer To Revitalize Your Floor's Surface:

An environmentally friendly tile and grout cleaner is applied to the grout lines and worked into the pores to loosen the embedded dirt.

Our proprietary color sealant is then brushed into the empty pores of your grout to insure even application.

Whole Kit Just $29.95!

BEFORE AFTER

Visit our website for testimonials!

GREAT FOR THE HOMEOWNER, DO-IT-YOURSELFER, AND CONTRACTORS!

1-800-631-0716 www.GroutShields.com

Mold & Mildew Resistant • Over 300 Colors Available
Custom Colors Available Too!

Security products for your peace of mind.

Driveway Alarms
Ranges from 600 feet to several miles
Motion • Rubber Hose
Metal Detecting • Hard-Wired

Cameras
DVR Capabilities

Door Chimes
Wireless Door Bells • Photo Sensors

Auto Dialers
Cellular or Landline Capabilites

Dakota Alert, Inc.
WIRELESS SECURITY EQUIPMENT
www.DakotaAlert.com
PH: 605.356.2772 • FAX: 605.356.3662

Compressor Power At Your Side!

The JacPac Power System is a revolutionary compressed gas system that can operate all standard pneumatic tools!

UNIVERSAL

Standard quick connect fittings will accommodate all pneumatic tools!

Easily adjust pressure to suit tool!

Operates anywhere between 20psi to 120psi.

RECHARGEABLE SYSTEM

CO2 Tank is easy to refill!

CO2 refills are quick & inexpensive!

CO2 power delivers 100's of shots per tank!

IDEAL FOR

Punch List!

Service calls!

Repairs & Maintenance!

DIY Projects!

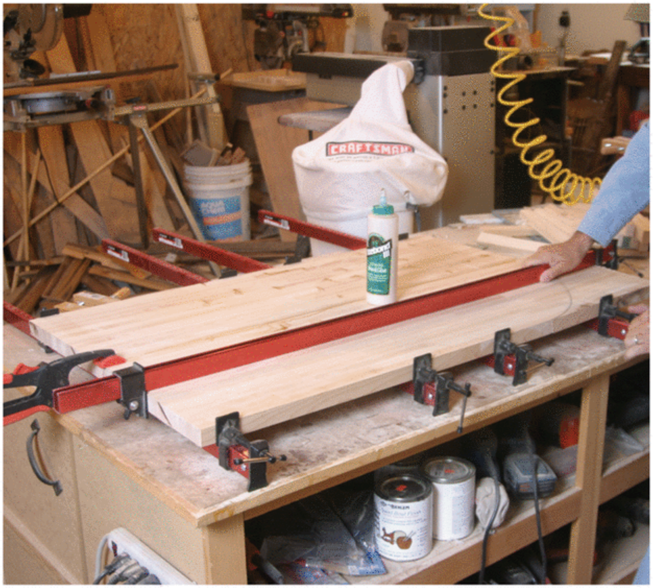
JACMORR®
JacPac®
CO2
POWER SYSTEM

For dealer inquiries & product information
www.jacpacco2.com

To order JacPac **CLICK HERE**

section with the curve was cut. This can be done with a jigsaw or with a bandsaw with an off-feed support. The two sections are then glued together, and this joint sanded smooth. Final step is to sand the edge smooth, then use a rounding bit in a router to round both the top and bottom edges. The top shown was to be fitted under the edges of ceramic tile, already in place so the back edge was routed to create a rabbet for the fit.

Last step is to apply the finish. I used H. Behlen Salad Bowl Finish. This is a nontoxic and food-safe



The two halves are then clamped together. In order to clamp the end with the corner removed, the bandsawed corner piece is dry-clamped in place to provide clamping support.

Can your pry bar do this?

THERE'S ONLY ONE PRY BAR SYSTEM

ARTILLERY® TOOLS
Adaptable productivity is here!

www.artillerytools.com (503) 968-2108

HOLD-IT INC.

ONE SOLUTION FOR ALL YOUR HANG-UPS!

Hold-it is a clever device that'll hold onto just about anything with a handle on it.

That includes tools, sports equipment, cleaning supplies; all organized and out of your way, yet easily accessible whenever you need them.

EASY TO INSTALL!

USE IT IN YOUR:
- GARAGE • CLEANING CLOSET • REC ROOM
- GARDEN SHED • LAUNDRY ROOM • WORKSPACE
- CAN BE MOUNTED INDOORS OR OUTDOORS

Tel (877) 904-4520 • Fax (866) 759-4520
Visit us online at: www.hold-it.ca

FREE SHIPPING
On Most Orders Over $99
ACME TOOLS®
BUILDING • REMODELING • WOODWORKING • LANDSCAPING™
acmetools.com
Over 10,000 Items Online!

SEE ALL OF OUR GIFT IDEAS!

MultiMaster Top Kit
While Supplies Last.
Model FMM250QTOP SALE $349.99
WAS $399.99 SAVE $50

6 In. Variable Speed Grinder with Quick Change
Limited Quantities At This Price.
Model GR275
SALE $79.99
WAS $109.99
SAVE $30
DELTA

20 Pocket Pro Framers Combo Apron and Suspenders
Model DG5617
$89.99
DEWALT

24 In. Limited Edition 120th Anniversary Level
While Supplies Last.
Model 37120
$59.99
STABILA

Pro Series Ladder
Includes FREE Set Of Wheels. A $19.99 Value. While Supplies Last.
Model 10102BP
SALE $299.99
WAS $379.99
SAVE $80
Little Giant Ladder Systems

3/32" - 1/2" Precision Bit Sharpener
Includes FREE Drill Bit Set (PP70102ZF) And Qualifies For A Free Diamond Wheel. A $32.94 Value. Mail In Rebate Expires 12-31-10. While Supplies Last.
Model 03681K
$99.99
500X FREE!
Drill Doctor

The New Wave™ Multi Tool
Our #1 Selling Multi Tool!
Model 830040
$79.99
LEATHERMAN

10 oz. Titanium 14-1/2 in. Straight Handle Hammer
Model FH10S-14
SALE $54.99
WAS $89.99
SAVE $35
STILETTO TITANIUM HAMMERS

10 In. Worksite Table Saw with Premium Fence, Guard and Stand
Model 4100-09
SALE $549.99
WAS $599.99
SAVE $50
BOSCH

The Web's Finest Assortment of Tools, Equipment and Accessories For the Contractor, Woodworker and Do-It-Yourselfer.

www.acmetools.com
1-877-345-ACME(2263) • support@acmetools.com

REGISTER ONLINE E-Mail Address
Specials • Close-Outs • New Product Updates

We Reserve The Right To Correct Errors, Limit Quantities And Terminate Any Offer At Any Time. Please Refer To Our Website For Up To Date Pricing. Sale Prices Expire 1-31-11 Or While Supplies Last.

cured finish. First, sand the wood to 320-grit smoothness. Remove all dust. Apply the finish with a lint-free white cloth in a thin, uniform coat. Allow 6 hours drying time and then lightly scuff-sand with 400-grit sandpaper and recoat. Allow 24 hours after the last coat and then rub with a nylon mesh pad or 4/0 steel wool. Allow 72 hours curing time, and then wash the surface prior to food contact. **EHT**

The entire top is sanded using a drum sander. The Craftsman drum sander also has a roller and support on the top, making it easy to manhandle large pieces such as the countertop from the out-feed back to the in-feed table.

The edges of the countertop are rounded using a 1/2-inch rounding bit in a router.

Build Decks Faster
With Our Simple, Solid Footing System.

- ICC Code tested and approved
- Strong, lightweight, and easy to handle
- Available in 10" and 16" diameters
- Suitable for post-frame construction
- Made from 100% recycled material

REPLACES CONCRETE FOOTINGS

FOOTINGPAD™
COMPOSITE FOOTING SYSTEM

NTA® LISTED GEE103107-16

Contact us for details or to purchase!
www.footingpad.com
(800) 522-2426

The top is sanded smooth with progressively finer grits of sandpaper.

Salad-bowl finish is applied with a soft cloth. The finish is smoothed between coats with 4/0 fine steel wool.

Do-It-Yourself Stainless Steel Cable and Glass Railing Systems

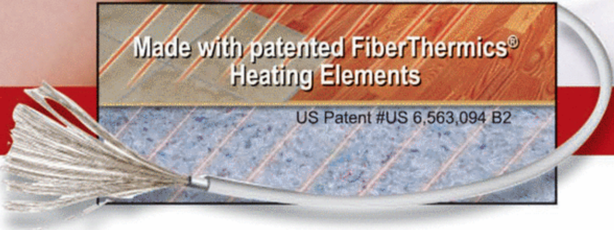
- Easy, DIY Installation
- Component Systems
- Custom Fabricated
- Many Style Options Available

Mention this ad and receive a FREE tool rental ($100 value).

CLEARVIEW®
by AGS STAINLESS, Inc.
TEL 888-842-9492
FAX 206-842-8179
www.agsstainless.com
info@agsstainless.com

QuietWarmth®

Radiant Heat Underlayment



Made with patented FiberThermics® Heating Elements

US Patent #US 6,563,094 B2

Floating radiant heat panels ideally suited for floating laminate, and wood flooring

Can also be used with other hard surface flooring like tile and glue-down wood

Much easier to install than most other systems, no need to bury components in thick concrete

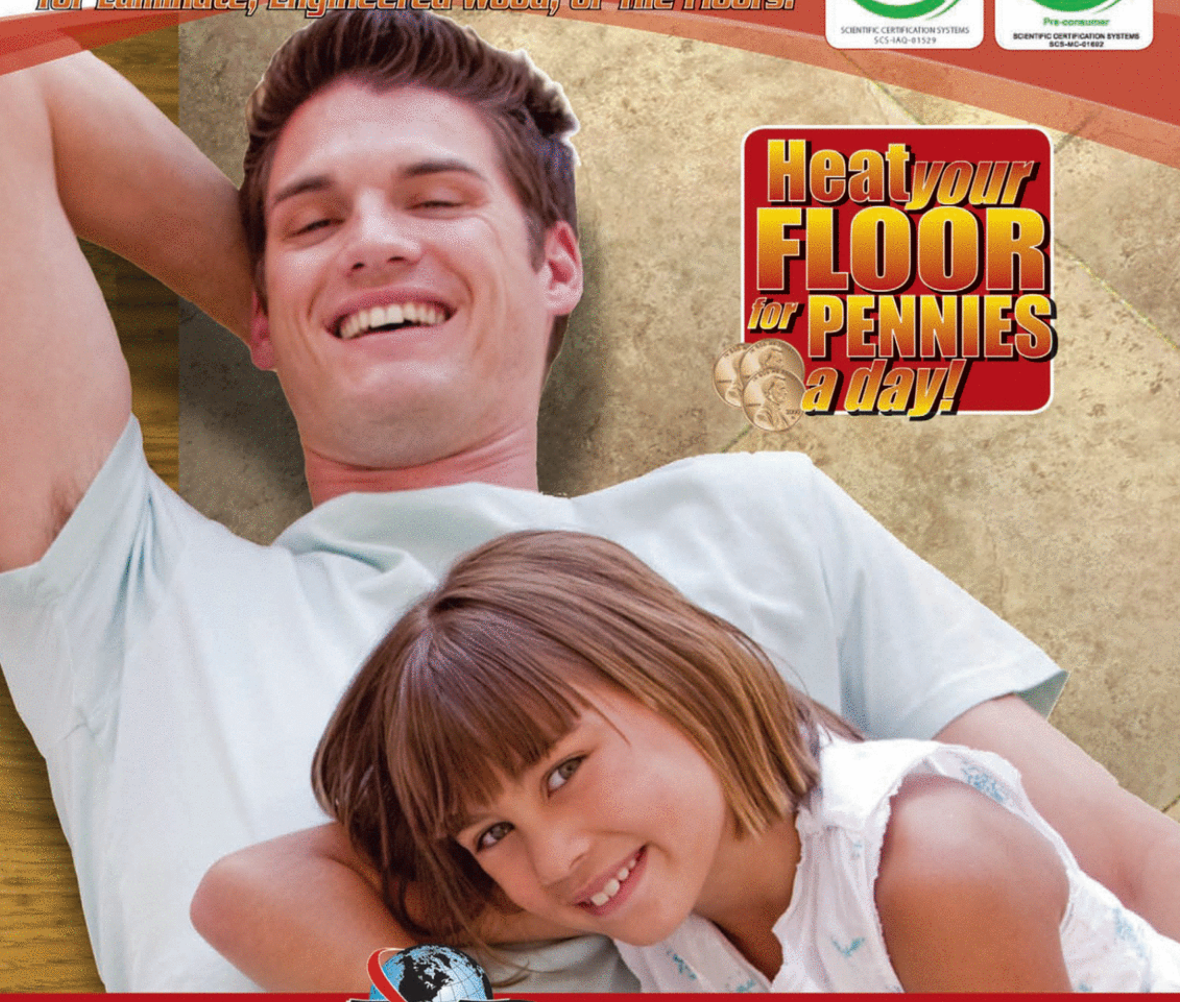
The perfect compliment to SnapStone or Avaire Tile Systems

Safe Heat

for Laminate, Engineered Wood, or Tile Floors!

SCS CERTIFIED
INDOOR ADVANTAGE
GOLD
SCIENTIFIC CERTIFICATION SYSTEMS
SCS-IAQ-01529

SCS CERTIFIED
Minimum 77%
Recycled Content
Pre-consumer
SCIENTIFIC CERTIFICATION SYSTEMS
SCS-MC-01602



MP global products L.L.C.
Your SUSTAINABLE Underlayment Specialists

Check out our complete line of flooring underlayments!

QuietWalk®
Acoustic Underlayment for Floating Wood & Laminate Floors

Insulayment®
Acoustic Underlayment for Glue-down & Nail-down Wood Floors

FIBERBACKER®
Acoustic & Anti-fracture Membrane for Tile Floors

888.379.9695 | quietwarmth.com

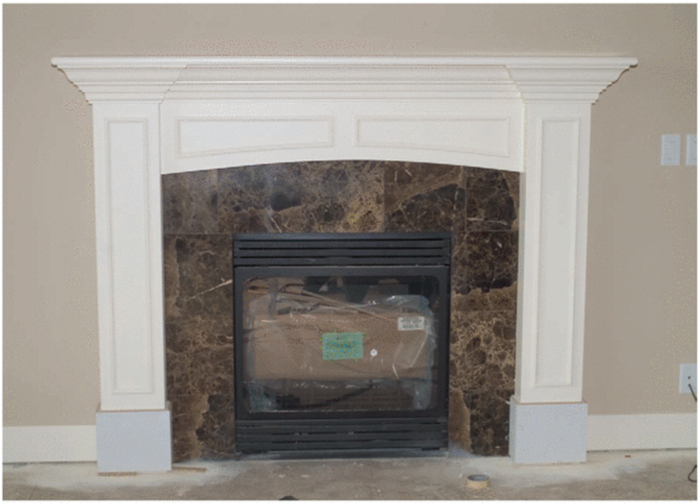
Making A Mantel

By Larry Walton

This classic mantel features an arched frieze and can be built using basic carpentry skills.

You have many options when it comes to fireplace design, like fuel types, locations, firebox liners, ventilation systems and masonry treatments. Mantels alone include a whole array of choices. A fireplace mantel can be natural wood or painted. It can include legs (pilasters) or may even incorporate a bookcase or other storage on each side.

Some mantels extend all the way to the ceiling and include alcoves for displaying art or housing video screens. Surface design options include appliqués, fluting or surface designs. Raised or recessed panels can also be incorporated into the design. Mantels can be as rustic as a log set in river rock or as refined as the most elegant piece of furniture.



Sketch out the plan for the mantel to get an idea of the proportions you want.

Extreme How-To
The New Face
granite

PLAN THE DESIGN

Mantels are either built in place or built as a unit (on or off site) and installed. How you attack your mantel job depends on your starting point. If you are building a mantel on a new fireplace install, check with any other trades for the order in which to do the job. Some stone masons prefer to have the mantel in place before setting any surround materials while others would like to set the masonry first and then have the mantel built around it or installed over it. This doesn't mean that the mason or stone setter should call the shots, but if they have a preference you might as well ask them before ignoring them.

No matter the design or sequence of the mantel install, it must be built and installed with strength in mind. While mantels are decorative in themselves, they also function as a display shelf for the most precious of family heirlooms, so we have to make sure they are sturdy and well anchored to the house.

If there is no wallboard up, you have an opportunity to add some framing to help anchor the mantel. Do so as long as it doesn't violate the required clearances for combustible materials.

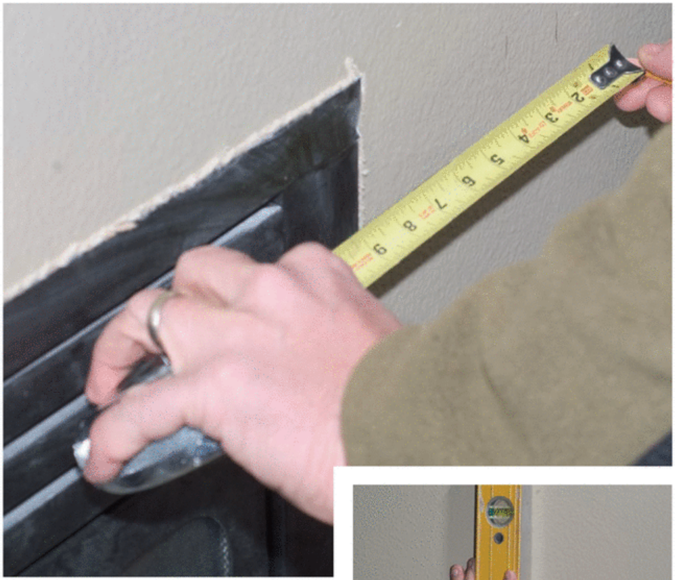
Besides being sturdy, the mantel shelf itself must be deep enough to accommodate the items you wish to display there. Also, determining the mantel size is the size of the room. If the room is large and has high ceilings, you can and should build a larger mantel. Intimate spaces, on the other hand, should not be overpowered by a bulky mantel.

As the mantel shelf extends beyond the face of the legs, the wider it will be. This is because the corbels and crown moldings, which support the mantel shelf, extend to the sides proportionally to the depth.

The mantel design for this particular project is built around a zero-clearance firebox with a stone surround, but it will work as well with any number of surround treatments like brick or tile. The homeowner wanted a substantial sized crown molding, so we got the look by building up (or layering) two different moldings.

STEP-BY-STEP CONSTRUCTION

It's a good idea to start your project with a rough sketch, which is more or less to scale so you can get an idea of the proportions you think would look best. If you plan to use tile around the firebox, you can space the legs away from the firebox according to the tile width you want to use. Keep in mind that tile can be cut to



Starting with the firebox. Measure and mark the width of the granite plus 3/4". Measure from both sides of the firebox as well as above the firebox.

Use a level to mark the vertical lines plumb and the horizontal line level.

Heated Floors

Radiant everything.

Snow Melting

Z MESH®

TUFF CABLE®

Hott-Wire®

Cozy Heat®

Roof Deicing

GutterMelt®

www.heatizon.com

Contact us
888-239-1232

HEATIZON
SYSTEMS

Measure and cut backing for the legs. The legs should extend from the floor to the bottom of the mantel shelf.

Horizontal blocks can also serve as backing for the legs depending on framing location.

width. If you are using stone it can be cut as well. Do a little research to confirm that the masonry you wish to use will work in the proportions you have planned.

Beginning at the firebox, measure and mark the width of the desired surround, plus 3/4 inch. The extra 3/4 inch allows for the thickness of the boards, which will make up the sides of the mantel legs. Measure from both sides of the firebox out, as well as from the top of the firebox up. For this mantel you will need to allow about 2 inches for the high point of the arc, which is cut out of the frieze board. For example, if you want to use 12-inch tiles, layout for 10 inches on the sides and 12 inches for the peak of the arc.

To get the mark for the top of the mantel legs, you will need to add the height of all of the exposed components up to the bottom of the mantel shelf. At each step you will lose some elevation to the area that is overlapped. For example, our crown molding overlapped the bed molding, which overlapped the frieze board.

Use a level to mark both the vertical lines and horizontal lines. Measure and cut backing cleats for the legs. Depending on the location of the framing, the cleats for the legs can be vertical or horizontal. On our fireplace we used both techniques.

Rip the side wall pieces for the mantel legs. Cut the leg face pieces to length and rip them to width. Sand the saw marks off of the edges of the leg face pieces. Use a router to ease the edges.

Nail the sides of the mantel legs to the backing. Apply carpenter's glue to the edges of the leg side boards. Align the front faces on the mantel legs and nail them to the mantel leg sides.

Next, locate and mark the framing above the horizontal layout lines. Measure, cut and install cleats along the horizontal lines. Measure, cut and install furring strips to bring the frieze board out to the desired thickness.

After measuring and cutting the frieze board to length, find the center and clamp a triangle-shaped scrap of wood with one

Rip the side wall pieces for the mantel legs. Cut the leg face pieces to length. Rip the leg face pieces to width.

point at the center line and the high point of the desired arc. Bend a thin strip of wood over the triangle point and to the corners of the frieze board and trace along the edge. Cut out the arc with a jig saw.

Sand off the teeth marks left by the jig saw. Use a section of the scrap cut off from the arc as a sanding block to match the curve of the arc. Do not ease or round over the edges of the arc.

Install the frieze board over the furring strips at the desired elevation. Check the frieze board for level and nail it into the furring strips.

Lay out the bottom edge of the crown molding on the frieze board. Transfer these layout marks from the frieze board to the front of the mantel legs. Mark the bottom edge of the crown or bed molding all the way around the mantel legs.

Begin the crown molding build-up with a piece of bed mold or brick mold cut at inside miters to the length of the frieze board. Follow the mantel legs with the first layer of molding all the way around the mantel legs. Measure the pieces at the point where they touch the mantel surfaces.

Mark the overlap for the next level of crown molding. Install the second level of crown in the same order as the first, beginning with the center piece and working out to the edges. Apply carpenter's glue at all miter joints. A good technique at this stage is to cut a piece of crown just a little over size. After testing one miter for fit, hold the piece in place and mark the short point to indicate the precise location of the second cut.

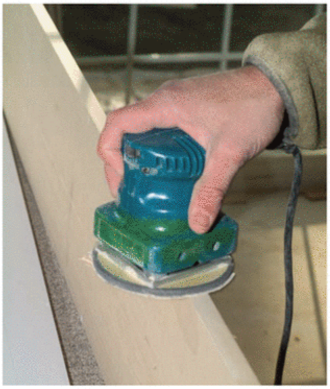
A small overlap requires precise nailing. You may want to add a strip of wood to the top of the first

Turn Any Shop Vacuum into a
Cyclonic Super Vacuum!
Dust In
Clean Air to Vacuum
$59.00 D.I.Y
$99.00 Deluxe
(Shown Here)
No more clogged filters!
99%+ of Dust Here
U.S. Patent #7,282,074
Dust Deputy
Shop Vacuum Not Included.
New!
Oneida Air Systems
Dust Deputy
Shop Vacuum Not Included.
"This works better than I could have ever imagined!"
Leonard Peeples - Florida
Kit shown here designed to fit Festool CT dust extractors but can also be used with any shop vacuum.
Made in USA
Oneida Air Systems
The Dust Deputy's cyclonic action eliminates clogged filters and maintains vacuum suction.
Some Oneida products are available in Woodcraft stores and at Rockler.com.
Dust Collection Systems & Components Since 1993
Call Today for FREE Catalog!
1.800.732.4065
Order Online!
www.oneida-air.com

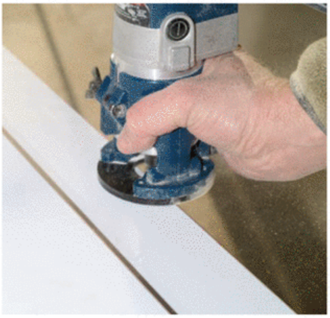
layer of molding so you have more wood in which to nail. Measure the first round of moldings at the points where the crown will overlap.

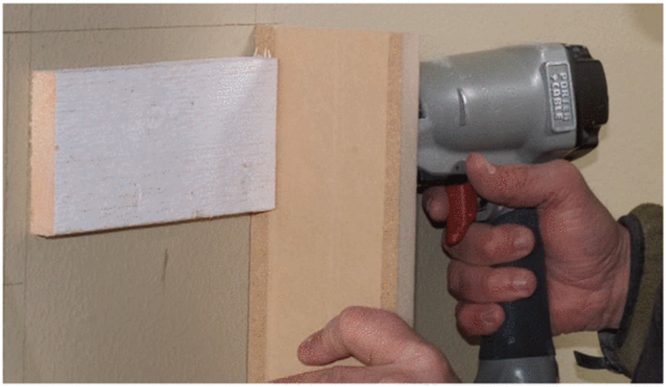
Measure and cut the mantel shelf. Note: The difference between the width of the shelf and widest point of the crown (from the wall to the front of the crown at the legs) is the "reveal." Add twice the reveal to the longest point on the crown to determine the full length of the mantel shelf.

Use a router to shape the edges of the mantel shelf. Test the mantel shelf in place and scribe it to the wall if necessary. Fireplace framing and firebox flanges often cause bumps along the wall, which the mantel shelf must fit. Use a

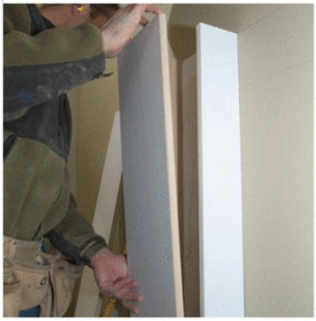


Sand the saw marks off the edges of the leg face pieces. Use a router to ease the edges.

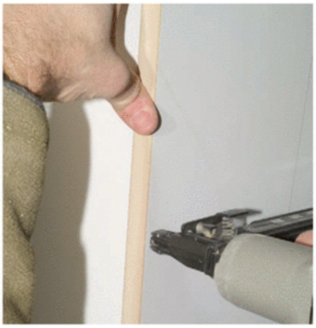




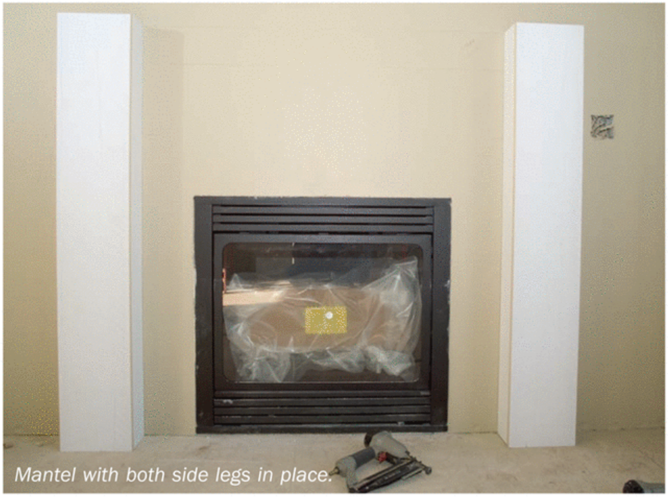
Nail the sides of the mantel legs to the backing.



Apply glue to the edges of the leg side boards. Install the front faces on the mantel legs.



Nail the front faces to the mantel leg sides.



Mantel with both side legs in place.

When Put To The Test Maxfilm Outperforms Leading Spray Lubes

Maxfilm outlasts and provides superior protection compared to conventional spray lubes. Visit www.protectparts.com to view recent footage of an independent test comparing Maxfilm to four leading brands or download the free tag reader app and watch it now.

Get the free mobile app for your phone
http://gettag.mobi

For a free catalog on Royal Purple products call 866-769-3516.

Maxfilm is available at quality retailers nationwide including:

19
ROYAL PURPLE
SYNTHETIC OIL
Maxfilm®
Synthetic Penetrating Lubricant
With Synerlec
Superior Wear Protection
Prevents Rust & Corrosion
Long Lasting
DIRECTIONS: Shake well. Apply to metal surfaces and mechanisms. For maximum penetration and long lasting rust and corrosion protection, do not wipe off.
DANGER: Flammable. Contents Under Pressure. Harmful or Fatal if Swallowed.
The Performance Oil that Outperforms®
NET WT. 4 OZ.
O'Reilly AUTO PARTS

power planer to remove the wood to the scribe marks.

Nail the mantel shelf into the cleats along the back. Use a short level to double-check the mantel shelf from front to back and nail the crown into the mantel shelf along the sides and the front.

Mark the surface moulding layout on the mantel legs. Use a combo square to mark the reveal (spacing to the edge) of

CFM CONTINENTAL FAN

ENERGY STAR

better AIRFLOW by DESIGN™

ENERGY SAVING SOLUTIONS

Quiet

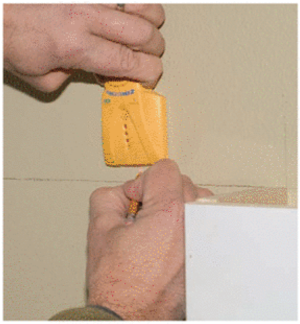
Efficient

Smart Technology

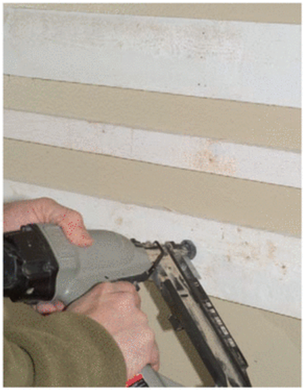
ENERGY STAR QUALIFIED
AXC-ES In-Line Duct Fans
AEROFAN Bathroom Fans

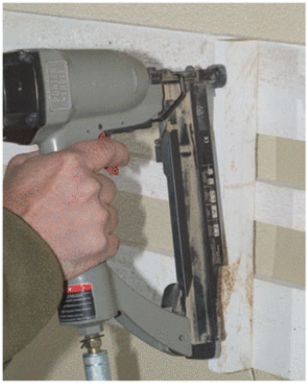
ASHRAE 62.2
DFC Digital Fan Control

Continental Fan Manufacturing Inc.
(800) 779 4021
www.continentalfan.com
Visit Us IBS Booth - W6577


Mark the wall framing above the horizontal layout lines.

Measure, cut and install cleats along the horizontal layout lines.




Measure, cut and install furring strips to bring the mantel face out to the desired thickness.

Let there be *light!*
TRANSFORM ANY ROOM WITH FAKRO SKYLIGHTS!

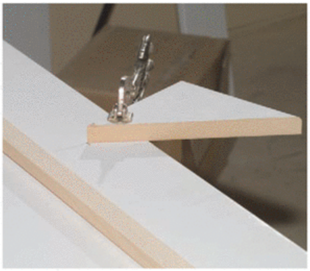
Leak Proof — the best protection on the market.
Free from condensation effects.
Easiest installation on the market.
Highest quality product with finished frame.
Available as a fixed and opening version.
The perfect additional light source!

FAKRO®

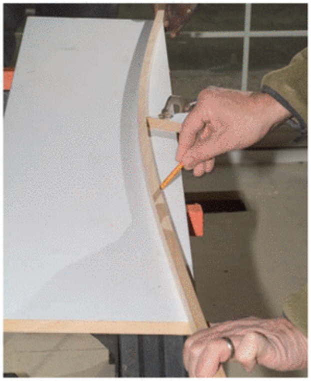
FAKRO AMERICA, L.L.C.
(630) 543-1010 • sales@fakrousa.com
www.fakrousa.com

SKYWIN-FAKRO
(519) 352-6587 • 866-FAKRO-CA
e-mail: sales@fakro.ca www.fakro.ca

TOLL FREE: 1-866-325-7622

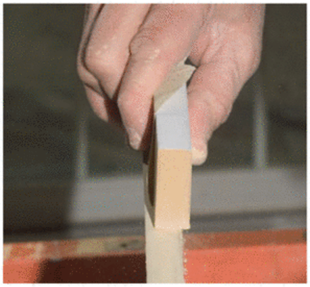


After measuring and cutting the face board to length, find center and clamp a triangle shaped scrap of wood with one point at the center line and the high point of the desired arc.



Bend a thin strip of wood over the triangle and to the corners of the face board and trace along the edge. Cut out the arc with a jig saw.

Use a section of the scrap cut off from the arc as a sanding block to match the curve of the arc.

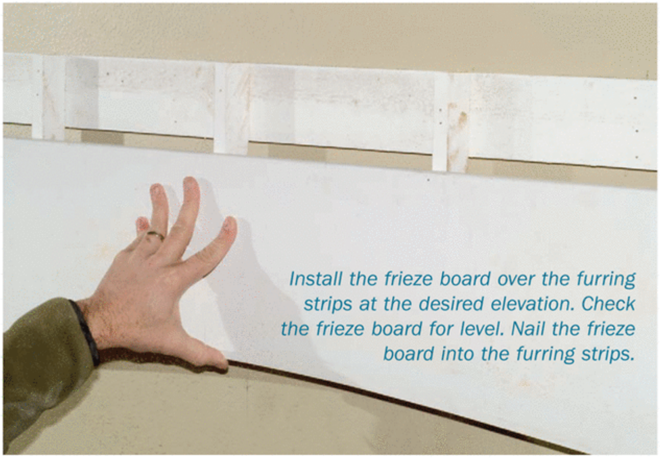


the surface moulding along the arc. Mark the center of the arc. Layout the vertical edges of the two frames from center.

Cut and nail the surface molding in place. The miters at the arced horizontal piece will need a little extra attention. Use a couple of scraps to test the angles needed to make the connection or you can overlap the horizontal piece over the vertical and trace the angle. The new angle can be cut with a sharp utility knife.

Apply carpenter's glue to the back of the bottom horizontal piece and bend it into place following the layout lines. When you like it, nail it.

After the stone surround is in place, mill a 1/4-inch-thick piece



Install the frieze board over the furring strips at the desired elevation. Check the frieze board for level. Nail the frieze board into the furring strips.

Layout the bottom edge of the crown moulding on the frieze board.

Transfer the layout marks from the face to the front of the mantel legs.

Mark the bottom edge of the crown moulding all the way around the mantel legs.

Woodworker's HARDWARE

Great gift ideas!

Prices good thru 12/31/10

Woodworker's Hardware stocks over 14,000 items for the woodworker and do-it-yourselfer. Our huge 748 page catalog is full of cabinet and furniture hardware, kitchen cabinet accessories, abrasives, adhesives, lighting, locks and more. Contact us at woodworkershardware.com or call 1-800-383-1009.

Save 12%

Magnetic Door Holder
Works as a door stop and/or a door holder. Just open the door fully and the heavy duty 12.5 lbs. of magnetic force magnet will hold it in place. 5 finishes on sale: Bronze, Satin NIckel, Black, Satin Chrome & White.
SSMDH $5.97

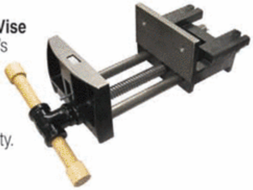
Save 10%

Bostik Top Cote Table & Tool Surface Sealant
Top Cote is better than wax. Reduces sliding friction, seals against rust and repels dust, dirt and moisture. Silicone free.
SACT11 (10.75 oz) $9.85
SACT5 (5.5 oz) $7.91

Save 10%

FastCap 3rd Hand (at left)
The 3rd hand works well as a support, a brace or a clamp. Hold crown mouldings for installation, create a dust barrier or as a brace in your truck or trailer. 5'-12' extension.
FC3H $37.35

Save 10%



Professional Woodworker's Vise
This professional woodworker's vise features a quick release action that will bypass the screw for fast opening and closing. The jaws are 4" x 7" and have a 9" opening capacity.
AJ40709 $111.39

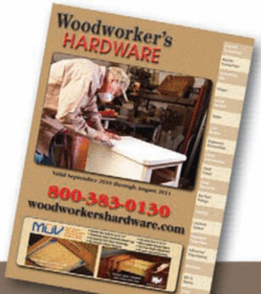
Save 10%

CMT
the only ORANGE one
10" GENERAL

The General Teflon-Coated Table Saw Blade
The General teflon-coated saw blade will give you excellent results when ripping or cross cutting. Use on hard woods, soft woods and plywood veneers. Standard or thin kerf models available.
CMT213.040.10 (standard) $54.74
CMT214.040.10 (thin kerf) $48.65

Save 8%

ChopShop Saw Hood
Tired of the mess from your chop saw? The ChopShop Saw Hood will keep your work area clean. Portable and can be used outside as a protective cover.
FCSAWHOOD $121.10



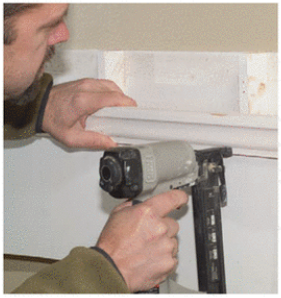
Request a free catalog!

1-800-383-0130

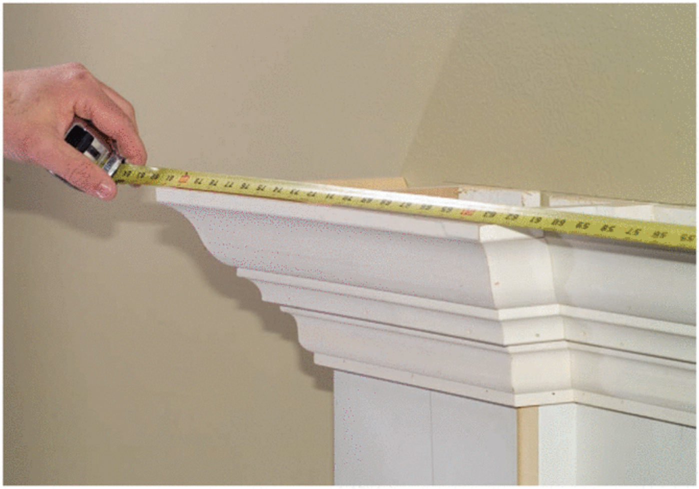
woodworkershardware.com

and bend it into place on the underside of the arc. Measure, cut and install base pieces or feet.

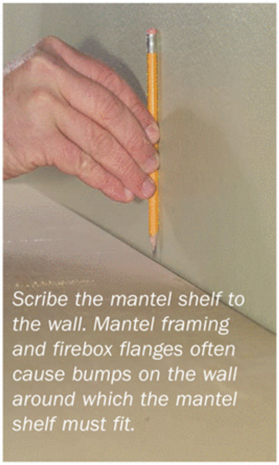
Add your favorite finish and the new mantle is complete. **EHT**



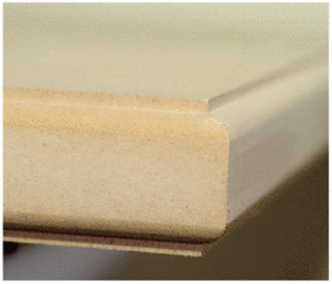
Begin the crown moulding build-up



Measure and cut the mantel shelf, allowing for the reveal of the crown moulding.



Scribe the mantel shelf to the wall. Mantel framing and firebox flanges often cause bumps on the wall around which the mantel shelf must fit.

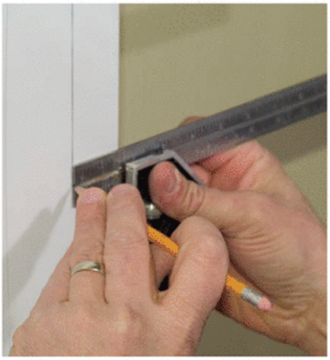


Use a router to shape the edges of the mantel shelf.

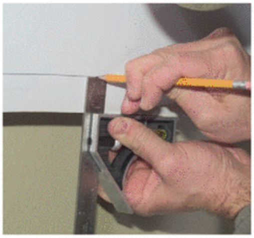
Nail the mantel shelf into the cleats along the back.

Use a power planer to shape along the scribe marks.

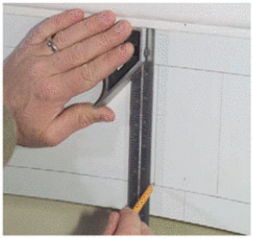
Nail the crown into the mantel shelf along the sides and the front.



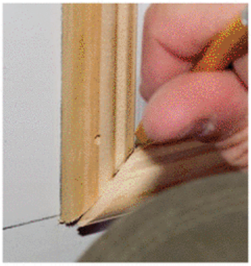
Mark the surface moulding layout on the mantel legs.



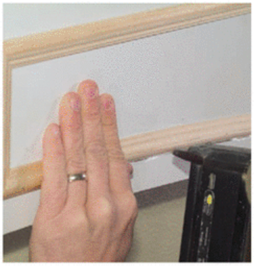
Use a combo square to mark the reveal of the surface moulding along the arc. Mark the center of the arc.



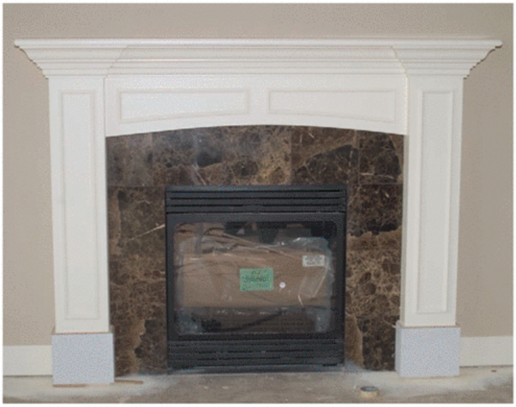
Layout the vertical edges of the two frames from center. Cut and nail the surface style moulding into place.



The miters at the arced horizontal piece will need a little extra attention. You can overlap the horizontal piece over the vertical and trace the angle. The new angle can be cut with a sharp utility knife.



Apply carpenter's glue to the back of the bottom horizontal piece and then bend it into place following the layout lines. When you like it, nail it.



Mantel completed with surround in place. After the stone surround is in place, mill a 1/4"-thick piece and bend it into place on the underside of the arc.

oxygenics®
VORTEX™

The easiest DIY project for a stronger, more powerful shower.

Oxygenics® Vortex
Oxygenics® Vortex

www.oxygenics.com

- 10" Wide Face
- 8 Spray Settings!
- Simple Intellever Switches Settings
- Save Up To .5 Gallons Per Minute
- No Clogging, Zero Maintenance

AVAILABLE AT:
ACE The helpful place. Do it Best BED BATH & BEYOND

FOR MORE INFORMATION: call 775.398.7680 or 800.344.3242
email sales@oxygenics.com, or visit www.oxygenics.com/xht

- Beautifies garages, shops, & work areas
- Easy to install & custom fit
- Hides cracks and stains
- Helps prevent concrete damage
- Reduced noise
- Insulates
- Cushions floor
- Reduces amount of dirt tracked into home
- Durable—5-year warranty
- Virtually seals floor
- Non-porus surface

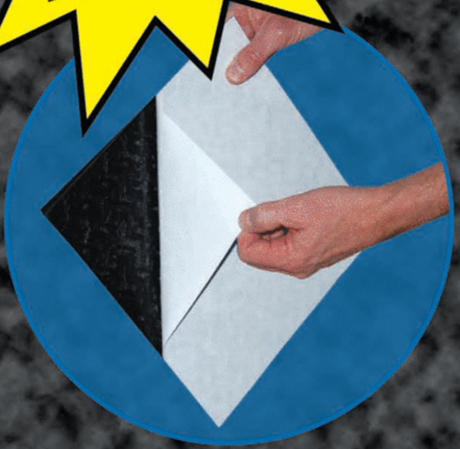
Easy Peel & Stick Application

BLT
Better Life Technology LLC

Contact BLT for purchase locations
customerservice@bltllc.com
www.jumbo-floor-tile.com
Qualified distributors—please apply

MADE IN USA

Patents Pending



G-FLOOR

RaceDay Peel & Stick Floor Tile®

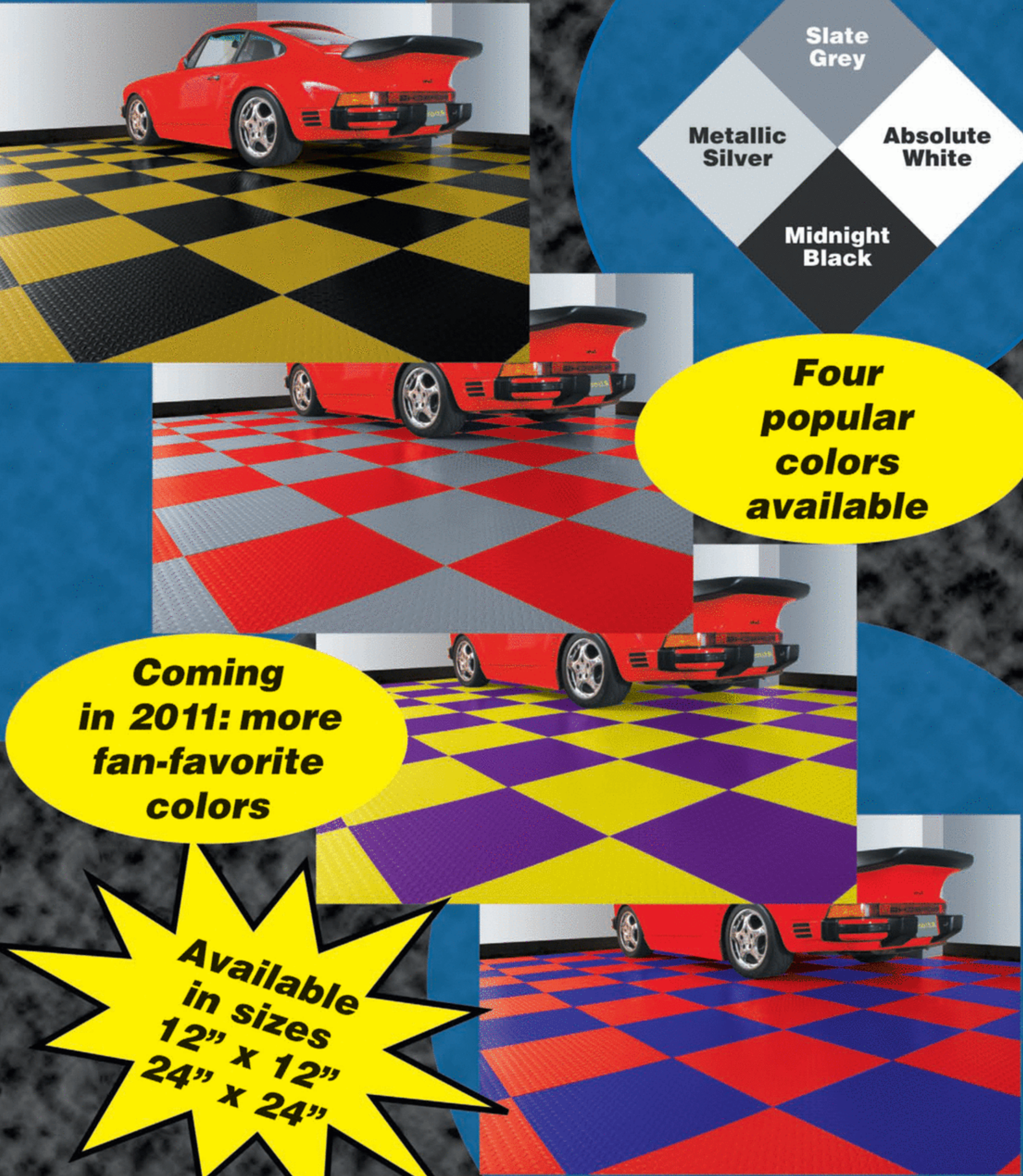
Slate Grey

Metallic Silver

Absolute White

Midnight Black

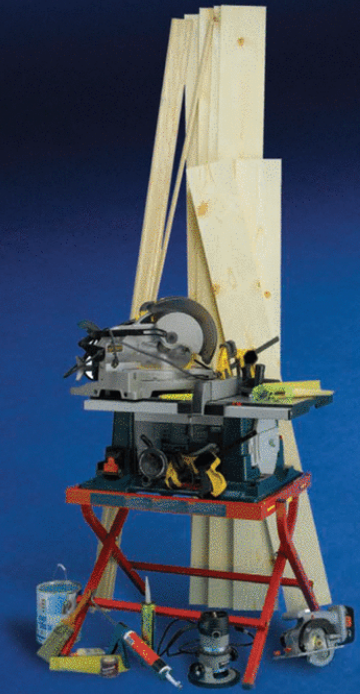
Four popular colors available



Coming in 2011: more fan-favorite colors

Available in sizes 12" x 12" 24" x 24"

Trim Houses. Not Margins.



Materials	$143
Labor (4.5 hrs.*)	$181
	$324.00

TOTAL COST
19%
LESS

Materials	$220
Labor (1 hr.*)	$44
	$264.00

Out Of The Box and On The House

Why use trim that you have to work for when you can use trim that works for you? Right out of the box, Fypon urethane millwork is ready to install. There is no need to prime, glue or fabricate pieces on the job site, and the quality is always consistent. Fypon trim provides a beautiful look without the hassle, saving you time and money. For all your trim needs, Fypon has you covered from peak to plinth.

** Material and labor costs are based on a field study conducted in June 2009 and represent the average material and labor costs of the participants; figures have been rounded. For complete detailed information regarding the study, visit www.fypon.com.*

FYPON®
It's How You Finish.

www.fypon.com • 800.446.3040

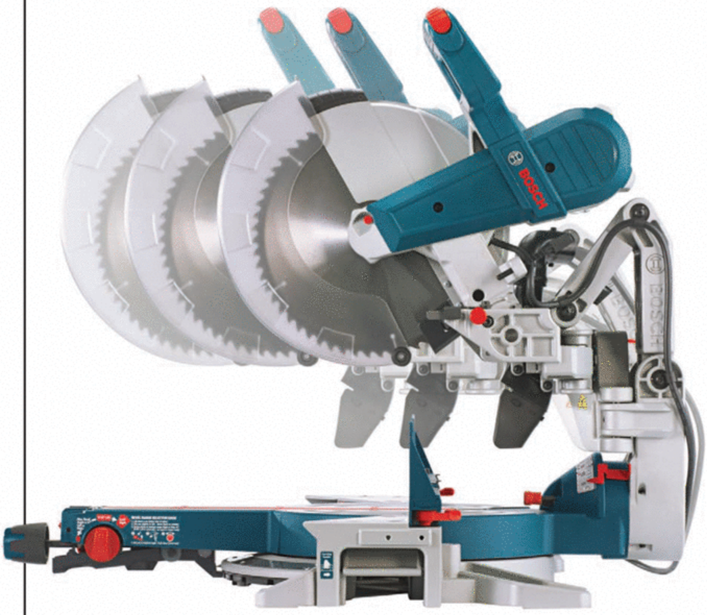
BOSCH GCM12SD GLIDE MITER SAW

If you're an avid reader of *EHT* then you've probably seen our staff use the Bosch 12-inch sliding miter saw on many projects over the last few years. It's a versatile and superbly crafted tool, with exceptional cutting capacity. Bosch has now improved upon an already good thing with the new GCM12SD Axial-Glide dual-bevel miter saw. This first-of-its kind design eschews the sliding rails for an articulating bevel that effortlessly glides the saw across the cutting surface. The Axial-Glide system operates by folding the articulated arm flush with the back of the saw, saving up to 12 inches of workspace versus a traditional sliding compound miter saw and enabling the saw to be operated with almost no clearance behind it; ideal for jobsites and cramped workshops. By replacing the sliding rail system with a hinged glide arm system—similar to the linkage used in a four-bar suspension design—Bosch has created a more compact miter saw that delivers durable precision, remaining true and smooth over time. Visit www.boschtools.com.

Milwaukee
12
14
16

MILWAUKEE M12 HAMMER-DRILL/DRIVER

Milwaukee Electric Tool's new M12 hammer-drill/driver is the most compact tool of its kind. Delivering 275 in-lbs of torque and 0-400/0-1,500 RPM, this new cordless lithium-ion tool features best-in-class power, speed and durability in a small, lightweight size. "At only 7-5/8 inches long and 2.8 pounds, it is the lightest and most compact hammer-drill/driver on the market," says Robert Shaw, product manager, M12 cordless tools for Milwaukee Electric Tool. In addition, it features metal gear housing for best-in-class durability and a single-sleeve, metal ratcheting chuck for superior bit retention. An integrated fuel gauge and LED light provide added user convenience. Learn more at www.milwaukeetool.com.



SHARPEN KNIVES LIKE A PRO

The new Work Sharp Knife & Tool Sharpener (WSKTS) is made by the same people who brought us the Drill Doctor brand of drill bit sharpeners. The Work Sharp is a precision sharpening tool that sharpens any knife to a razor-sharp edge quickly and easily. "Our patent-pending flexible belt sharpening technology sharpens any knife fast and with repeatable results: hunting knives, kitchen knives, pocket knives, serrated blades and other blades can all be sharpened with ease to a shaving sharp edge," says Hank O'Dougherty, president of Darex LLC, the makers of Work Sharp, Drill Doctor and Darex sharpeners. "This abrasive belt-sharpening method is well known by

knife makers and now it is available to everyone who wants a sharp knife." The WSKTS also excels at many other tool sharpening tasks such as scissors, lawnmower blades, garden pruners and any other bladed cutting tools. The WSKTS comes with a complete set of flexible abrasive belts and precision sharpening guides that can sharpen nearly any knife or bladed cutting tool. Learn more at www.worksharptools.com.

ROCKWELL JAWSTAND

On the heels of the company's popular JawHorse comes a new material support device from Rockwell called the JawStand, which is like a hybrid of a sawhorse and an out-feed support stand, but it also pivots to function vertically and it clamps material. The prevailing idea is that the JawStand serves as an extra pair of hands on the jobsite. It not only supports loads up to 220 pounds, but it can clamp work pieces up to 1-1/4 inch thick and raise them 41 inches off the ground. The JawStand features a heavy-duty tripod base for superior stability and non-marring rubber feet. As an extension table or outfeed support when cutting long boards or sheet goods, the JawStand uses a glide-friendly material along its support edge that feeds material even more easily than a roller. Plus, the JawStand is able to pivot zero to 90 degrees, and swivel 360 degrees to hold doors during installation, raise cabinets for mounting, and clamp work pieces for sanding, painting, polishing or staining. Learn more at www.rockwelltoolsdirect.com.

JAWSTAND
ROCKWELL

LITTLE RED RIPPER

The Roofers World Little Red Ripper is an exceptional demolition tool for all sorts of interior and exterior home renovations. Rip everything from shingles, siding and tiles to walls and flooring. Use it for various hard-to-reach applications, rip around sensitive objects and remove nails, screws and staples simultaneously. The Little Red Ripper features dual forward and backward ripping action, optimized by the "pierce and pry" method of the tool's aggressive ripping teeth. It features an angled 7-by-7-1/2-inch head to reduce strain on the arms and back. For more information, visit www.littleredripper.com.

HOLIDAY GIFT IDEAS

ULTRATECH LIGHTED INSPECTION MIRROR

Working inside dark and confined spaces on the job is made a lot easier with the new UltraTECH Lighted Inspection Mirror. LEDvision, an all-new line of precision specialty tools—each incorporating bright white LED lighting for on-the-spot illumination—has been added to the UltraTECH specialty tool line from General Tools & Instruments. This useful tool incorporates a 2-by-3-inch fully polished glass mirror topped with two extra-bright LED bulbs. Its ergonomically designed, 8-inch handle extends out to 33 inches for a conveniently long reach. The Mirror features a 360-degree swivel joint for those very hard-to-see areas such as auto engine bays, around installed appliances and much, much more.

The unit is powered by two CR-2032 batteries. Learn more at www.generaltools.com

CRAFTSMAN LASER TRAC 2-IN-1 JIGSAW

Barrel-grip or D-handle? Those are the two basic designs of today's jigsaws, and Craftsman offers both in one unit. The Craftsman Professional Laser Trac 2-in-1 Jigsaw includes a top handle that detaches for use as a barrel style saw so the user can get closer to the workpiece for precise cuts, or the saw can be used with the top handle attached to reduce fatigue during big projects. The built-in Laser Trac laser guide with on-demand laser helps the user stay on the cut line, and it also comes with LED light to illuminate the work surface. The saw is equipped with 5.0 amps of power with variable speed control of (800-3,000 SPM no load). The five-position orbital cut control and scrolling action with directional guide allows the user to complete a variety of cuts. The 2-in-1 Jigsaw also features a one-finger, tool-less blade change device that accepts both U- and T-shank blades, a heavy-duty professional grade aluminum table, bevel capacity from 0-45 degrees and a powerful vacuum and blower mode. Included with the saw are a case, blade, edge guide and laser enhancing safety glasses. Learn more at www.craftsman.com.

RIDGID MITER SAW UTILITY VEHICLE

Ridgid offers fast and easy one-step setup of a miter saw with its universal Miter Saw Utility Vehicle (MSUV). This mobile tool stand has a quick-release foot-pedal lock and a single lift point design. It's sturdy enough to withstand the toughest jobsite conditions, and at the end of the day when the job is done, the Ridgid MSUV folds upright for easy storage in your shop, garage or trailer. Features include an upright folding design for easy storage, 9 feet of material capacity and more than 400 pounds maximum load. Also included are universal saw brackets (compatible with most popular brands), non-skid rubber feet, quick-release extension locks, a secondary bracket lock and an integrated storage tray. Learn more at www.ridgid.com.

ROCKLER®
WOODWORKING AND HARDWARE
Create with Confidence™

Enjoy
FREE
Shipping
Through
January 2, 2011
ROCKLER
Bench Cookie™
ROCKLER
Bench Cookie™ Plus
ROCKLER
FAST FIX
TRION

Raise the level of your woodworking

With the overwhelming popularity of our original Bench Cookie™ Work Grippers, we have received a wealth of feedback from our customers explaining additional tasks they would like these handy grippers to help accomplish in the shop. From that feedback, we have developed the Bench Cookie Plus and Riser System. This new system provides clearance for circular and jigsaw blades with the same gripping ability as the original – another Rockler innovation to help you ***Create with Confidence.***

Enjoy
FREE
Shipping
Offer expires
January 2, 2011

Order your **Bench Cookie™ Plus Work Grippers** (38052) today for **just $13.99/pack of 4 and Risers XL (34671) for only $7.99/pack of 4.**

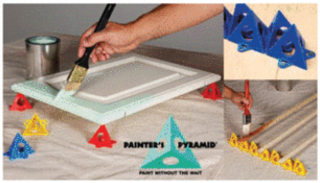
Call **1-800-279-4441**, go to **www.rockler.com** or dial **1-877-Rockler** to find a store near you! **Use code V0398 to get FREE SHIPPING!**

For a store near you or free catalog visit Rockler.com | **1-877-ROCKLER**

HOLIDAY GIFT IDEAS

PAINTER'S PYRAMID

New and improved for 2010, the Painter's Pyramid is an innovative solution to a long-felt problem: waiting for paint to dry before completing a job. The *EHT* staff discovered this product at the 2007 Hardware Show. Specifically, the Painter's Pyramids are durable project supporters that allow you to paint an entire object (top, bottom and sides) in one session without waiting for it to dry or sacrificing quality. With the new Lock & Tab System, the Painter's Pyramids can now be secured to any work surface (including sawhorses) or each other. The Painter's Pyramid is formulated from a plastic that will not stick to paint, has a rounded tip to ensure the object being painted is not damaged, and supports up to 200 pounds. Visit www.painterspyramid.com.



THE FINISHING TURNTABLE

The Finishing Turntable combines the simplicity of the Painter's Pyramid with the versatility of a turntable. The device allows you to securely elevate and effortlessly rotate your projects 360 degrees. This combination of functions enables you to achieve great results while saving time and effort. Popular uses include stripping, gluing, painting and finishing, including hand, brush and spray application. The 12 Painter's Pyramids are mounted to the turntable surface on rails to allow tremendous flexibility in supporting finishing projects. Simply slide the pyramids along the rails until they align with the bottom of your project. The Finishing Turntable is capable of supporting oversized projects that weigh up to 100 pounds. Learn more at www.finishingturntable.com.

Finishing Turntable

SLIDE-N-PUMP

At one-third the price of electrical pumps, the versatile Slide-N-Pump makes short work of pumping or siphoning water anywhere, without the need of electricity. The Slide-N-Pump is easy to use and eliminates the dangers of using electricity in wet working environments. Simply attach a standard garden hose to both ends and Slide-N-Pump your water troubles away. It also acts as a siphon initiator; once a siphon is initiated through pumping, water will continue to flow. Available in two convenient sizes, the Slide-N-Pump comes in a standard 25-inch size, requiring only 6 pumps per gallon, or the Mini 18-inch version for space-constrained areas, which requires 10 pumps per gallon. Both sizes are portable and easy to store in a garage, shed, car or boat. Learn more at www.slide-n-pump.com.

SLIDE N PUMP

Garage Butler™
Hold
Manual
Open/Close
Min

THE GARAGE BUTLER

The Garage Butler will automatically close your garage door when you forget. This patented device attaches to any garage door mechanism that has a working opener/closer button, and will not interfere with the opener's normal operation, nor will it interfere with any infrared safety circuit. The garage door will close after a time-delay of three to 30 minutes. Usually the shorter time is ideal; however, in the winter when one would like to start the car and let it warm up, a longer time is preferred to prevent the buildup of deadly exhaust fumes. The door may be programmed to stay open, to clean out the garage, have a garage sale, etc. If you forget to close the door, the door will close when it gets dark, preventing it from being left open all night. Or, you can turn the switch to the OFF position and leave your garage door open for an unlimited period of time. Learn more at www.garagecloser.com.

HYDE TOOLS 10-IN-1 MULTI TOOL

For anyone who likes to stay on top of home repairs, the new 10-in-1 tool from Hyde is an excellent gift that retails for $11 for less. It's the only tool a pro or homeowner needs to carry to complete everything from replacing a screw to scraping old paint, recaulking a window or

TITAN
Wood Post Anchor™

The
Perfect Marriage
of Beauty
and Brawn.

"There isn't anything that comes close to your product. No question about it."
– E. O'Toole, Charlston, NH

The revolutionary
Titan Post Anchor™
delivers what you
want the most.

Clean looking lines.
Fast & easy installation
on any surface.
Longer post life.

Don't take our word for it.
Try them for yourself on
your next project.

Yes, You can have
a perfect marriage.
And you deserve it.

Titan Building Products
Our business is Innovation.
Our motivation is You.

† Anchors available in 4x4 and 6x6 sizes
Hot dip galvanized with powder coat finish
Post skirts available to conceal all fasteners

†† US and foreign patents pending.

Call us at 1-866-577-8868 or visit us online at www.IdeasForDeckDesigns.com

HYDE
HYDE
10-IN-1 TOOL
HERRAMIENTA 10-EN-1
MAXXGRIP PRO Series
Heavy Duty 2½"
1 SCRAPE PAINT
2 SPREAD COMPOUND
3 CLEAN ROLLERS
4 REMOVE PUTTY
5 OPEN CRACKS
6 HAMMER HEAD END SETS NAILS
plus 4 bits
800-USA-HYDE
06920

hammering a nail. The 10-in-1 is lightweight and easy to use, incorporating the most-frequently used 2-1/2-inch blade size, as well as: a precision-ground and hardened scraping edge; a thick blade for heavy chiseling; a pointed edge for grout removal; and a working Philips and slotted screwdriver with the most frequently used bits. Learn more at www.hydestore.com.

GORILLATORCH BLADE

Joby, Inc. recently introduced the Gorillatorch Blade, a hands-free and tactical LED flashlight that combines even, powerful light with ultra-precise positioning capabilities. The high-efficiency and long-lasting CREE XLamp XP-C LED produces up to 130 lumens of intense light output to illuminate any workbench. The even light profile can be adjusted from spot to flood for detailed tasks or work on reflective surfaces. The lithium-ion battery is easily recharged using either the included USB cable or AC adapter. Further increasing productivity, smooth 360-degree pan and 180-degree tilt allows precise illumination of the most tough-to-reach spaces. Designed for difficult environments, the rugged casing and easily maneuvered neck are constructed of aircraft-grade aluminum, making the lightweight Gorillatorch Blade remarkably durable and scratch-resistant. Plus, it is removable from the stand to serve as a miniature flashlight. The flexible, bendable tripod legs and powerful neodymium magnetic feet adapt easily to any work situation including: getting the perfect angle on any workbench, wrapping around a pipe, or hanging upside down from the car. Learn more at www.joby.com.

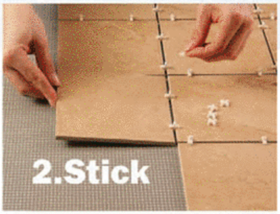
T-JAK SUPPORT SYSTEM

When you need an extra hand to support overhead work, the T-Jak is like having a silent, poorly paid assistant. The *EHT* staff has used it to work on second-story decks, build temporary brace walls, install cabinets and more. Available from Patterson Avenue Tool Company with optional extensions and accessories, including the Mini-Brute T-Jak, the complete T-Jak support system quickly adjusts from 15 inches to 10 feet to raise and hold in place objects weighing up to 400 pounds. Just tilt the quick-release knob, raise its threaded rod to the right supporting height, and lock the knob in place. Then, turn the quick-release knob to precisely adjust the T-Jak for safe installation. Unlike devices that lift in notched intervals of 1/8 inch or more, the T-Jak support system can split a chalk line with continuous, fine-tuned adjustments. Accessories include drywall support brackets and a new optional U-Support Tool that extends the T-Jak's "raise and hold" support to those installing any non-flat shape including plumbing pipe, drive lines, electrical conduit, HVAC duct and more. Visit www.tjak.com.

A Tiling Breakthrough

DO IT YOURSELF.

EASY AS 1, 2, 3!



BONDERA™
Tile Adhesive on a Roll

To learn more visit BonderaTileMatSet.com
It's quick. It's clean. It's durable. No dust. No odors. No VOCs.

GRACE

E-ZPRO DOVETAILER JIG

Until now, bulky industrial jigs for producing dovetail joints were mainly for professional woodworkers and serious hobbyists due to their large size, high cost and complexity. However, the new, enhanced E-Zpro DOVEtailer Jig from General Tools & Instruments brings this professional precision joinery to anyone who owns a router or router table. Whether you're cutting full or half-blind dovetails, face joints or box joints, this small, handheld size jig makes perfect joints right out of the box. Aside from your router, no other parts or equipment are required. Learn more at www.generaltools.com. **EHT**

LOWE'S CELEBRATES THE 65TH ANNIVERSARY OF *IT'S A WONDERFUL LIFE* BY BRINGING THE VILLAGE OF BEDFORD FALLS TO YOU

Sometimes home improvement for the holidays is as simple as creating a miniature Christmas Village. This season Lowe's brings back those childhood memories with the 65th Anniversary Edition of *It's a Wonderful Life*. The collection features everything from the bridge where George decides he could no longer face the despair in his life, to the wonderful little Martini's Bar where he meets his guardian angel, Clarence. Lowe's also carries accessories for miniature villages from lighted snow blankets, to additional street lighting, AC power adapters and stock figurines of various animals, characters and scenery to complete your scene. For more on Christmas Items available at Lowe's Click Here.

Plumbing & Heating Supplies

Order Online at www.pexsupply.com

Save 5% with coupon code PEXTREME

(Offer Expires 10/29/10)

Real People. Real Service.

PexSupply.com www.pexsupply.com • 888.757.4774

HitchSafe™ Converts receiver into a VAULT!!

Secure, Concealed Key Storage

Great Holiday Gift !

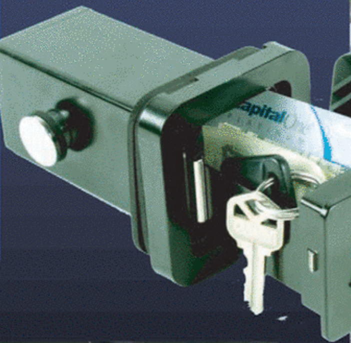
Give the gift of convenience and security to those outdoor enthusiasts whereby keys are a hassle or can be lost.

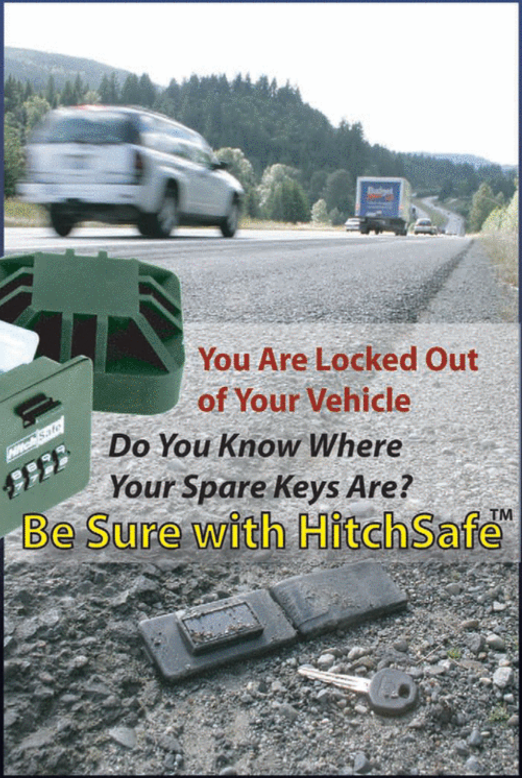
Secures spare car, boat and even home keys.

Secure your valuables during outdoor sports!

Secures license, credit cards and cash.

- **Secures INSIDE 2" hitch receiver**
- **Drawer has 10,000 possible combinations**
- **Set your own combination**
- **Never be locked out again!**





You Are Locked Out of Your Vehicle

Do You Know Where Your Spare Keys Are?

Be Sure with HitchSafe™

Security and peace of mind

Secure access to your keys when you need them most!

The HitchSafe™ gives you peace of mind that you will never be locked out again and your keys will always be there when you need them most! No magnets falling off at first bump, plus your items are tightly secured inside the solid metal hitch receiver with the only access possible being the 10,000 combination drawer.

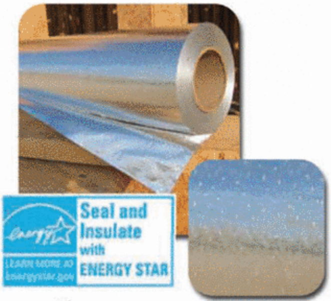
The HitchSafe™ offers another bonus of holding up to two credit cards and/or driver's license. Great for outdoor sports where carrying keys is a hassle and your credit cards/cash left in the vehicle would otherwise run the risk of being stolen.

Save $10 when ordering!!

go to www.padlocks4 less.com (866-770-2023) and enter in the discount code extreme at bottom of first page checkout to save.

With
RISING
Energy Costs,
NOW is the time
to INSTALL
RadiantGUARD®

RadiantGUARD® Attic and House Wrap Radiant Barriers


Seal and Insulate with ENERGY STAR
Learn more at energystar.gov

- ***Block 95-97% of the radiant heat***
- ***Lower attic temperatures up to 30°***
- ***Reduce heat flow to living spaces up to 50%***
- ***Lower monthly utility costs year-round***
- ***NFPA Class A and UBC Class 1 fire rating approvals***
- ***Comply with Standard Specifications for Sheet Radiant Barriers for Building Construction Applications (C1313)***
- ***Qualifies for IRS Tax Credit through 2010***
- ***ENERGY STAR® qualified radiant barrier***
- ***RadiantGUARD® is a proud member of the BBB with an A+ rating***

Install a RadiantGUARD® radiant barrier - the most cost effective way to lower your utility bills and participate in lowering the energy demand on the environment.

RadiantGUARD®
Protecting Your Energy Costs

For more information, please visit or call today
www.RadiantGUARD.com
toll free (866) 528-8412

RadiantGUARD®

Protecting Your Energy Costs

Studies have shown that up to 93% of ceiling heat gain in summer months occurs from radiant heat transfers from attics heated by radiant energy from the sun. Roof shingles and decking absorb radiant heat generated by the sun and transfer this heat into attic spaces heating up existing insulation. Once this existing insulation meets its saturation point, it then radiates this heat to all surfaces within the interior of the home (ceilings and walls).

Radiant barriers **BLOCK** almost ALL of this radiant heat.

RadiantGUARD® double-sided radiant barrier products are the leading products on the market used by home owners, new home builders, and agricultural and manufacturing enterprises. Our radiant barriers **block 95-97% of the radiant heat** that attempts to enter building structures in the summer months or escape in the winter months helping save utility costs year round.

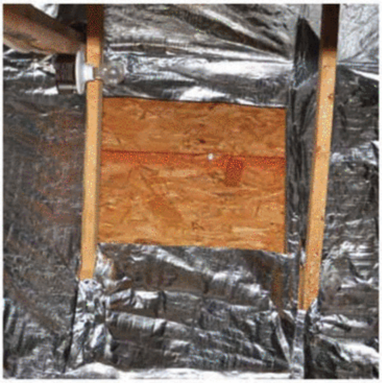
In the summer months, our radiant barrier products can **reduce attic temperatures by up to 30 degrees** when installed to the underside of roof rafters. Lowering attic temperatures provides a significant benefit by reducing air conditional loads and energy usage. Radiant barriers can also:

- Reduce heat transfer from attic to living spaces by up to 50%,
- Extend the life of air conditioning units,
- Increase the comfort level of a home, and
- Reduces utility costs year-round
    - Keeps heat out during warmer months
    - Holds heat in during cooler months

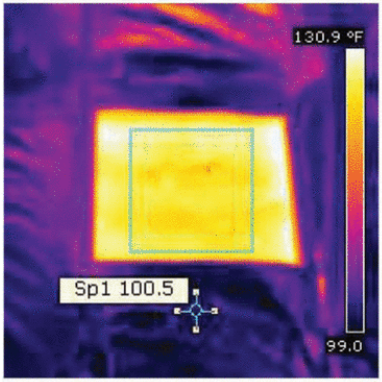
RadiantGUARD® Radiant Barrier Thermal Imaging Results

The following images provide a visual of how effective a radiant barrier is against blocking radiant heat from a residential roof deck from entering an attic space. The images were taken from the attic floor viewing upward to the radiant barrier attached to the underside of the roof decking.

The image below was taken on a 95 degree sunny day with a standard 35mm camera. It shows a 20" X 20" cut out of the **RadiantGUARD®** exposing the roof decking above.



This image below was taken immediately thereafter with a FLIR i7 infrared camera. It shows the same 20" X 20" cut out of the radiant barrier. The temperature readings from the surface of the **RadiantGUARD®** average approx. 100 degrees. The temperature readings of the roof decking surface average approx. 130 degrees; 30 degrees hotter than the surface of the radiant barrier.



RadiantGUARD® Radiant Barriers meet the California Insulation Standards and the Standard Specifications for Sheet Radiant Barriers for Building Construction Applications **ASTM C1313**.

Made In the USA

Shelf Life

By Matt Weber

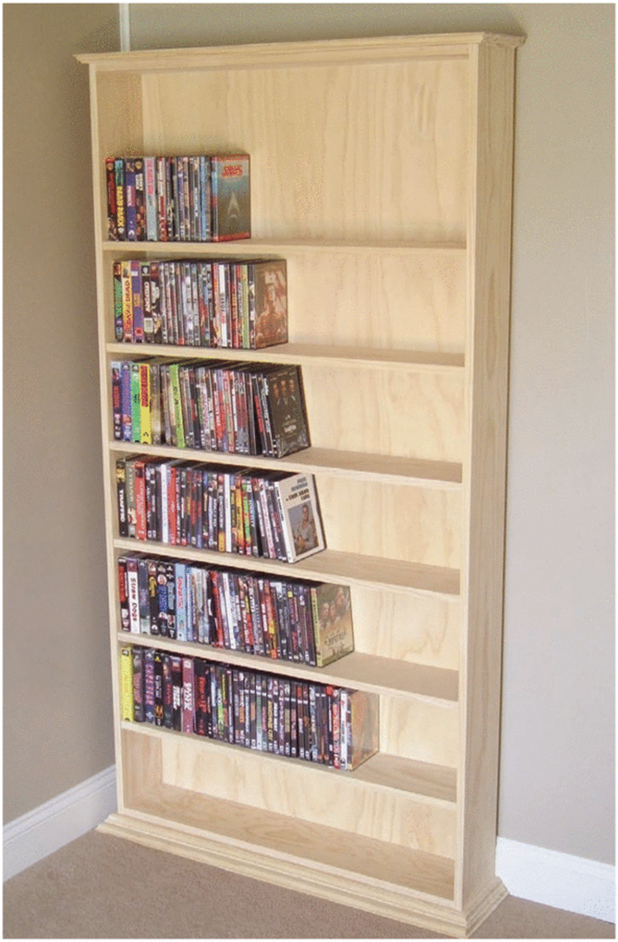
Here's a look at a ***basic case of shelves*** *built with* ***pocket-hole joinery****.*

I'm a big movie fan. I like action movies, monster movies, thrillers, comedies, dramas, westerns, you name it, and I've been collecting them since I was a kid. Over the years I managed to accrue a considerable pile of VHS tapes, and wouldn't you know it—now DVDs and Blurays are the hot new things, with VHS tapes are going the way of the dodo. So after all those years spent collecting movies, I'm now replacing the clunky old tapes with the new digital disc format. All of this movie fandom means that I've got a lot of movies but not a lot of places to put them. So I decided to build a purpose-built case of shelves to house my movie collection.

While the shelf case in this article is designed specifically for DVDs, you can alter the dimensions and basic design to suit whatever stuff you want it to hold. The whole thing is constructed from No.1 select pine and a plywood back. The shelves are joined with pocket holes and self-tapping screws—a fast and strong way to join finish carpentry (more on that later). Here's how I took it from a stack of boards to the final product.

BUILDING THE CARCASS

The shelf case is designed to be taller than I am—more than 6 feet—so I built it outdoors to have plenty of



ABATRON

Restoration & Maintenance Products

ABATRON'S building, restoration and maintenance products excel at meeting tough challenges. They have been specified for over two decades by architects, government agencies, builders and other professionals for a multitude of applications. The products are based on epoxies, urethanes, acrylics and other materials in wide ranges of viscosity, hardness, flexibility, thermal, chemical and mechanical properties. Below are product highlights:

LiquidWood & WoodEpox
WoodEpox
ABOCRETE
ABOWELD
ABOSOLV

For FREE CATALOG call 1-800-445-1754

Wood Restoration

WoodEpox®: Structural, non-shrinking adhesive paste is used in any thickness to fill and replace missing wood.

LiquidWood®: Liquid, penetrating consolidant for restoring strength and function to rotted or spongy wood.

Both **LiquidWood®** and **WoodEpox®** permanently restore windows, columns, clapboards, logs and most rigid surfaces.

Restoration of rotted window is easy and cost-effective.

Stone, Concrete, Masonry Restoration

AboCrete: Permanently repairs and resurfaces concrete. Fills cracks and bonds broken sections.

AboWeld 55-1: Slump-resistant structural paste repairs and reshapes stairs, statuary and vertical surfaces.

AboJet®: Structural crack-injection resins that permanently weld back together foundation walls, columns, etc. Prevent water infiltration.

Abocrete can be used to replace missing concrete.

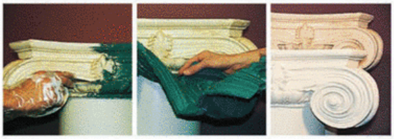
Abojet bonds structural walls.

Moldmaking and Casting Compounds

MasterMold® 12-3: Non-toxic polyurethane paste for flexible, large and small molds. Can be applied on site.

MasterMold® 12-8: Liquid 12-3 for making pourable molds.

Woodcast: Lightweight interior/exterior casting compound.



MasterMold can reproduce capitals, structural and decorative components, statuary and other patterns precisely & cost-effectively.

Structural Adhesives, Protective Coatings, Sealants, Caulks

Abocoat and Abothane Series: Protective coatings for floors, walls, tanks and tubs.

Wide selection of adhesives and sealants for most environments. Meets specifications for composites, structural and decorative components, indoors & outdoors.

5501-95th Ave., Kenosha, WI 53144 USA Tel: 1-262-653-2000 www.abatron.com

room to handle its size. I set up a couple of sturdy sawhorses saddled with a couple of sheets of plywood to serve as an outdoor work table.

The first cuts I made were with a handheld circular saw, rough-cutting the 1-by-8 sides and shelves. When rough-cutting the stock, take the opportunity to trim away any damage the wood may have suffered at the supplier. Carefully inspect the boards; even low-defect pine will have some dents and nicks, and you can often keep the best section of wood and treat the damaged areas as waste stock.

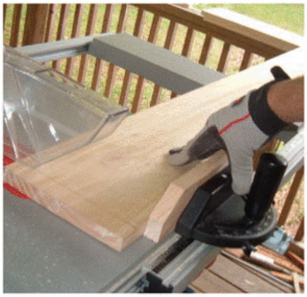
I then finish-cut each board on my Bosch table saw to ensure a more accurate cut. I ripped the edges of the sides just to remove a little edge damage, cutting the 1-by-8 stock to 7-1/8 inches wide, and I crosscut both 8-foot boards down to 72-1/2 inches. I then used a router to cut a 3/8-inch-deep rabbet in the backs of the side boards—the rabbets are to provide a snug place to hold the plywood backing.

I cut the top and bottom boards to 36 inches long, from 4-foot 1-by-8's. I fastened the top and bottom to the sides with pocket-hole joinery and wood glue to create the rectangular frame of the carcass. The top and bottom of the carcass were fastened flush to the interior of the sides and flush to the front of the side boards. However, the top and bottom were shallower than the sides, so they were not flush with the rear. I had cut the top and bottom boards to 6-3/4 inches, which was 3/8 inch shallower than the side boards. This allowed the rear of the carcass' top and bottom to be flush with the bottom of the rabbets, creating a recessed frame for the plywood back. I turned the carcass face down, revealing the rabbets in the sides.

I then cut the 4-by-8 plywood sheet down to size—36-7/8 by 72-1/2 inches to fit the rear of the carcass. To cut the plywood I used a Festool plunge cut saw and a guide fence. When clamped to the plywood, this cutting system creates a nice, straight, accurate cut. However, if you don't own one, you can whip up a homemade guide fence to use with your circ saw. Once cut, the 3/8-inch plywood

Rought-cut the boards to length.

Finish cut the boards on a table saw for better accuracy.



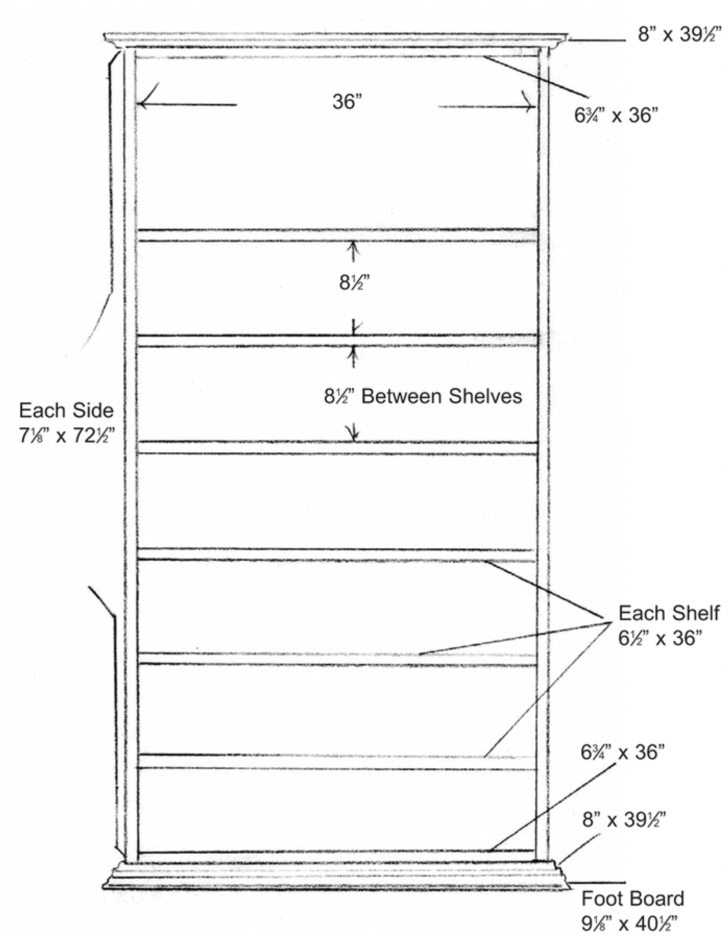
Homemade auxiliary facing for your miter gauge makes it easier to cross-cut long boards.

fit right into those 3/8-inch rabbets and flush onto the back of the top and bottom boards. I then used wood screws at the top and bottom, and hammered finish nails through the plywood and into the rabbets of the sides. The plywood held everything tightly square for the rest of the construction.

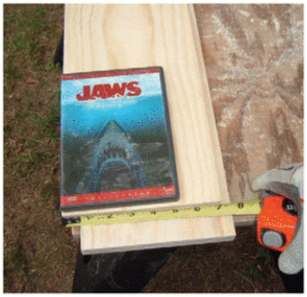
A LITTLE DÉCOR

I had just gotten a new Skil combo-base router and was eager to try it out, so I went ahead and made the true top and bottom of my shelf case. The decorative top and bottom were cut larger than the top and bottom of the carcass. My idea was to allow a little overhang on the front and sides so I could rout a shaped edge on them, giving the overall appearance of the case a little "snap." I used a 4-foot 1-by-10 that I finish-cut on my table saw to 8-by-39-1/2 inches. When fastened flush with the back of the carcass, this would allow the top to overhang the carcass more than 1 inch at the front and sides.

Next, I set up the combo-base router in "fixed-base"



I sanded the boards throughout the project.



These shelves were sized to hold a standard DVD case.

Shown are the tools I used for the pocket-hole joints.

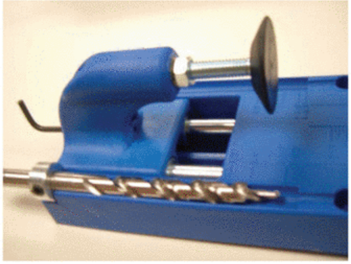
configuration for a little edge routing. I used a roman ogee router bit to cut a nice profile in the front and sides of the board. One thing about routing—you've got to have good, sharp bits. When cutting a deep profile, I'd suggest making it in a few successive passes, lowering the cutting depth after each pass to prevent "burning" or discoloring the wood.

With the top completed, I cut and routed an identical board to attach to the bottom. I then used wood glue and countersunk wood screws to attach the new top and bottom to the carcass. Note: I inverted one of the boards so the top and bottom edge profile were upside-down to each other—a personal preference.

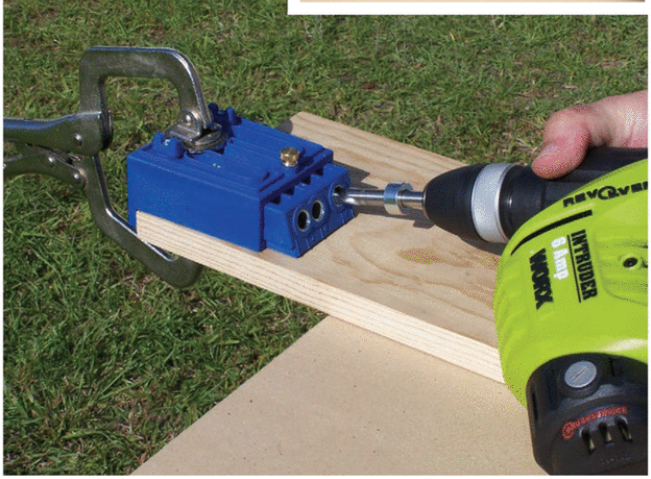
Then, at the bottom of the case I went a step further. The carcass was more than 3 feet wide and more than 6 feet tall—nice looking, but I was concerned about stability; it was only 8 inches deep at the bottom. I didn't want it toppling forward onto someone's head. So I added an extra layer of 1-by to the bottom to act as a foot. This was a deeper board cut from a 4-foot 1-by-10 to 9-1/8-by-40-1/2 inches. That made it 1 inch wider than the original routed bottom board and 1-1/8 inch deeper, which was key. I routed another ogee profile in the foot board, and attached it with countersunk screws and glue to the bottom, flush with the back. This meant an extra 2 inches of routed wood was protruding at the bottom beyond the face of the case, like a person's toes. So, once the case is standing it would resist the tendency to tilt forward—thus, extra stability. Plus, you can always fasten the case to the wall for extra security.

POCKET-HOLE JOINERY

The next step was to add the shelves, which were fastened with the aforementioned pocket-hole joinery. Pocket-hole joinery relies on a two-step process. First, use a special "stepped" drill bit to drill the pocket hole. The drill bit has a 1/2-inch diameter shank but it also features a shoulder with a narrower tip that drills a pilot for the shaft of the screw. The bit's 1/2-inch diameter is actually to provide a countersink hole to house the wider head of the screw.



Set the stopping collar on the drill bit using the measurements marked on the benchtop base.



Clamp the portable base and Kreg jig to the ends of the boards and drill the pocket holes.

This initial pocket hole is drilled at an offset angle with the help of a special jig (see diagram pg. 68). I simply clamped the jig onto the edge of the boards and drilled through the jig's drill-guide holes, which held the bit at a precise angle.

The depth of the pocket hole and the length of the screw depend on the thickness of the wood you're joining. But don't worry—you don't have to commit a bunch of depth measurements to memory. The jig I used from Kreg Tool Company features marked graduations that you simply align with the top of the jig's portable base. In other words, since I'm joining 1-by (3/4-inch-thick wood), I just line up the "3/4-inch" mark that's written on the jig's guide block with the top of the jig's portable base. I tighten a nut to lock it in place, and the jig is ready to rock.

One more note: To prevent the drill from plunging through the

SKIL
Do it right. Do it with Skil.™
SKILSAW
Precision is where we draw the line.

The SKIL 12" Compound Miter Saw with laser cut line ensures the right cut every time.

Your confidence has you ready to take on even the most complex projects around the house. That's why we engineered the SKIL 12" Compound Miter Saw. Patented laser cut line for perfect cuts. Left/right extension rails for better control. Nine positive stops for pinpoint accuracy. And the **highest-rated motor in the industry.** It's not just the best saw for the money, it's the only saw at this price with so many advanced features. After all, you draw the line on precision, too.

AVAILABLE AT
LOWE'S
Let's Build Something Together™

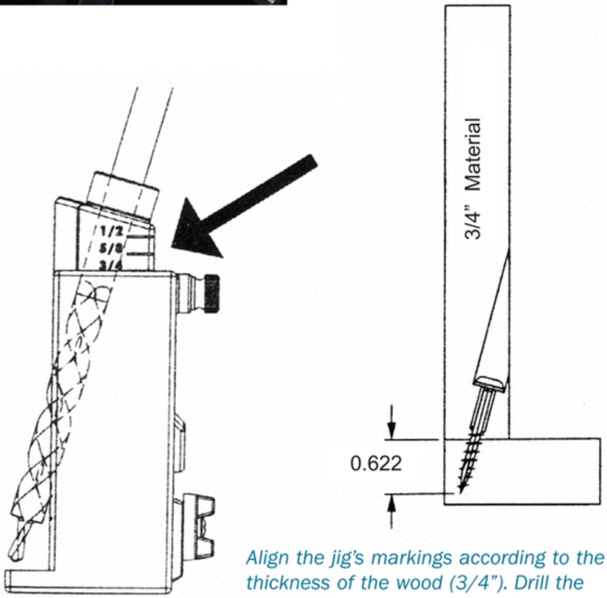
SKIL 12" Compund Miter Saw

skiltools.com

CORDLESS TOOLS CORDED TOOLS BENCHTOP TOOLS

Rout a rabbet in the rear of the side boards for the plywood back.

Use right-angle clamps to keep the frame square while fastening.



Align the jig's markings according to the thickness of the wood (3/4"). Drill the pocket hole. Then drive the screw.

wood, you have to tighten a stopping collar on the shank of the drill bit. So, where on the shank do you lock the collar?
For 3/4-inch material, place the depth collar 3-9/16-inch from the shoulder of the drill bit. This is simplified by another feature of Kreg's K3 Master Jig System: It comes with a benchtop base for the jig. This benchtop base, like the portable base, features marked graduations for standard wood thicknesses. Just line up the drill bit with the markings on the benchtop base, and the base shows where to position the collar. Once you set up the drill bit and jig, which only takes a second, you're ready for repeat drilling. It's really pretty easy.

So, on to Step Two of pocket-hole joinery: Apply the screw. Using a square-headed driver bit, I drove Kreg's 1-1/4-inch self-tapping screws into the pocket holes. That completes the operation. I used three screws on each side of each shelf (on the underside). The self-tapping screws driven at the offset angle provides a very strong clamping action for a solid, durable and fast wood joint. Once you get the hang of it you'll be flying through your screws. And the screw heads are concealed beneath the surface of the wood, inside the pocket hole, which you can conceal with putty or Kreg's pocket-hole wood plugs.

ADDING SHELVES

Each shelf was made of 4-foot 1-by-8 stock, which I finish cut to 36 inches wide and ripped to 6-1/2 inches deep, just slightly deeper than a standard DVD case. This also allowed the shelves to sit recessed in the case about 1/4-inch—a design feature I thought would make the case appear a little less "boxy."

Lifetime Warranty

Genova Products has provided a lifetime warranty on all its PVC building products since 1962.

Beautiful today . . .
Beautiful FOREVER

Faster,
Frustration-free
Installation

Automatic Board Alignment
Tongue & Groove Design
No Expensive Fasteners
No Tedious Spacers

Genovations®
Decking
& Railing

In a class by itself . . . NOT composite, NOT cellular PVC
SOLID PVC DECKING with enhanced surface technology

will not fade, stain, rot, or mold

Proudly made in the USA

Contact us for samples
or more information

genovaproducts.com
800.521.7488

Note: After the shelves and sides were cut to size, I went ahead and sanded them smooth with an orbital sander. As a matter of fact, I sanded the wood many times throughout construction, trying to save myself from facing one giant sanding job at the end of the project. It's also easier to sand the entire board before it's been installed. Ultimately, you want to go from 120-grit sandpaper to 180-grit on a power sander, graduating to the finer grits as you go. In the end you'll want to hand-sand everything smooth with 220-grit paper on a sanding block, which will remove the tiny swirl marks that will inevitably be left by the orbital sander.

To install the shelves, I predrilled the pocket holes in each shelf board, then screwed them in place one at a time. When doing so, I rested the backs of the shelves on the plywood, spacing them 8-1/2 inches apart. I used a speed square to make sure the shelves were square and marked their locations. I then used a couple of right-angle clamps to hold them steady while I screwed them in place. I added six shelves, giving me seven surfaces of shelf space. And I left extra space above the top shelf as a decorative preference, and so the case wouldn't be quite so top-heavy.

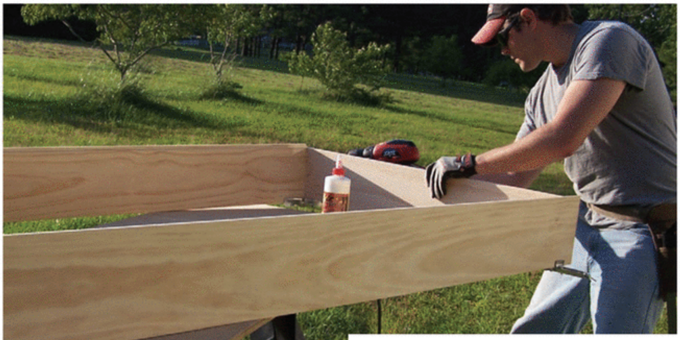
MATERIALS LIST

3/8" Pine-veneered plywood
"One Good Side," 4' X 8',
1 pc.

4-foot, 1" X 8" No. 1 Select Pine,
8 pcs.

8-foot, 1" X 8" No. 1 Select Pine,
2 pcs.

4-foot, 1" X 10" No. 1 Select Pine,
3 pcs.

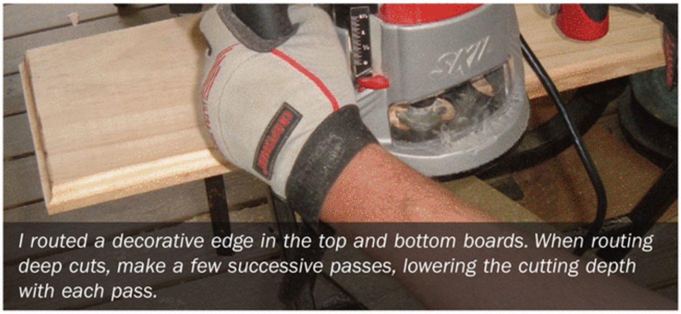


Use a combination of glue and self-tapping screws driven into the pocket holes to fasten the frame.

Use a T-square to mark the cut lines on the plywood backing. A circ saw and guide fence makes cutting plywood a cinch.

Use wood screws and finish nails (along the rabbet) to fasten the plywood to the frame.

Sand all joints flush.



I routed a decorative edge in the top and bottom boards. When routing deep cuts, make a few successive passes, lowering the cutting depth with each pass.

NO DOWNTIME
WHEN YOU HAVE SHARP BITS
GUARANTEED
OVER 3 MILLION SOLD
NOW SHARPEN SPADE BITS!
Drill Doctor®
The Drill Bit Sharpener

Enjoy having the guarantee of a sharp bit whenever you need one—even spade bits! With Drill Doctor you can forget about the downtime caused by leaving to purchase new bits. Dull bits result in longer project times and poor quality. Drill Doctor will deliver a precision-sharp bit in less than 60 seconds. Drill Doctor is the number one name in bit sharpening and now that it can sharpen spade bits, it just got better.

- **Perfectly angled edge on all bits – even spade bits!**
- **Save time and money**
- **Built to last and backed by a 3-year warranty**

To order, visit **DrillDoctor.com**. Watch our **demo video** to see Drill Doctor in action!

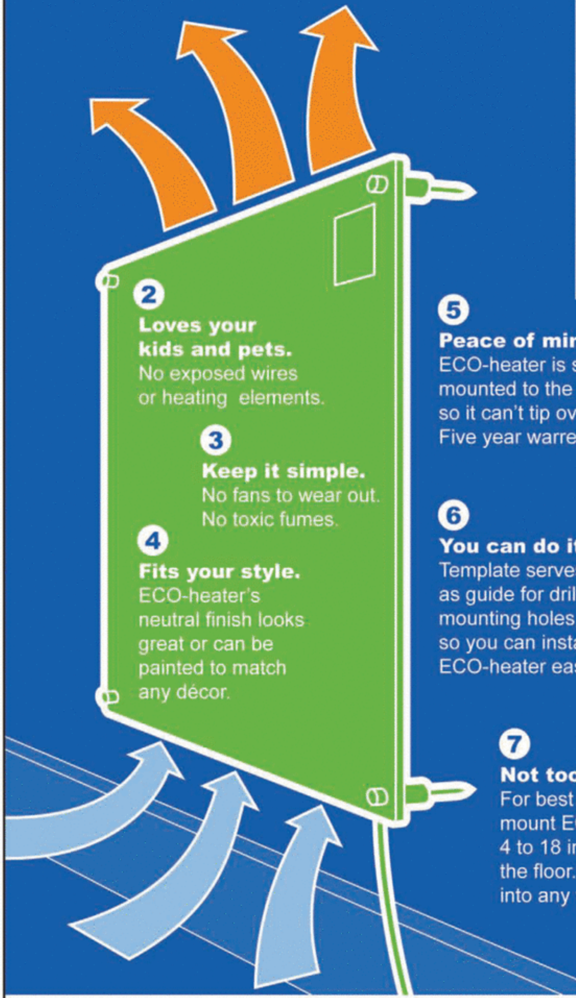
www.ecoheat.com

ECO-heater®

warm never felt so good™

① **It's natural.**
Air between ECO-heater and the wall heats up and rises, drawing in cool air from the bottom, circulating warm air silently throughout the room.

The payoff.
By creating this natural flow of air, ECO-heater warms a 10' X 12' room using less than one-third of the energy a typical spaceheater uses. You save money and reduce your carbon footprint.



② **Loves your kids and pets.**
No exposed wires or heating elements.

③ **Keep it simple.**
No fans to wear out. No toxic fumes.

④ **Fits your style.**
ECO-heater's neutral finish looks great or can be painted to match any décor.

⑤ **Peace of mind.**
ECO-heater is securely mounted to the wall so it can't tip over. Five year warrenty.

⑥ **You can do it.**
Template serves as guide for drilling mounting holes, so you can install your ECO-heater easily.

⑦ **Not too high.**
For best results, mount ECO-heater 4 to 18 inches off the floor. Plugs into any wall outlet.

Illuminated ON/OFF switch

Clear installation instructions

Paint to match your wall

Effective—Warms a 10' x 12' room with only 400 Watts...great for bedrooms

Efficient—Uses 73% less electricity than other room heaters

Economical—Save up to 50% or more on your total heating costs

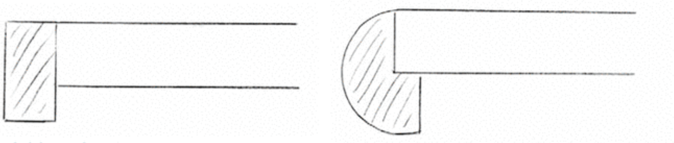
ECO-heaters are wall-mounted electric convection space heaters that use less than1/3 of the energy typical space heaters use. An environmentally-responsible alternative to 1,500 watt space heaters, an ECO-heater heats a 120 square foot space using only 400 watts. ECO-heaters are less than 24" square, and are mounted 3/4" off the wall to create a convection heat channel. The air between the wall and the panel is heated and rises, drawing cool air from the floor, thus silently circulating warm air throughout the room. ECO-heaters are easy to install, can be painted to match any décor, and plug into a standard outlet. ECO-heaters are UL listed, U.S. Patent Pending and have a 5-year warranty.

For more information on ECO-heater,
visit www.ecoheat.com.

Available through Ace, Blish-Mize, Bostwick-Braun, Do it Best, Handy, HDW, House-Hasson, Orgill, True Value, and United Hardware.

Next comes the finish sanding, and I used Skil's Octo sander, because you can fit this little gadget with eight different sanding profiles, allowing you to access tight corners, flat faces and numerous shapes and profiles. This came in really handy at the edges of the shelves and when trying to smooth out the routed ogee profiles.

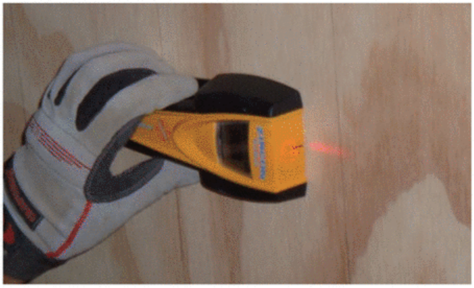
Once you've sanded the pine to a glassy finish, the last step is to add your favorite stain and sealer to your new case of shelves. **EHT**



Add nosing to reinforce shelf strength.

I added six shelves, leaving a little extra room above the top shelf.

Once everything is fastened together, it's time for more sanding.



I located the shelves from the rear and drove wood screws into their backs.

PIRIT™
HEATED HOSE

It flows when it's freezing.

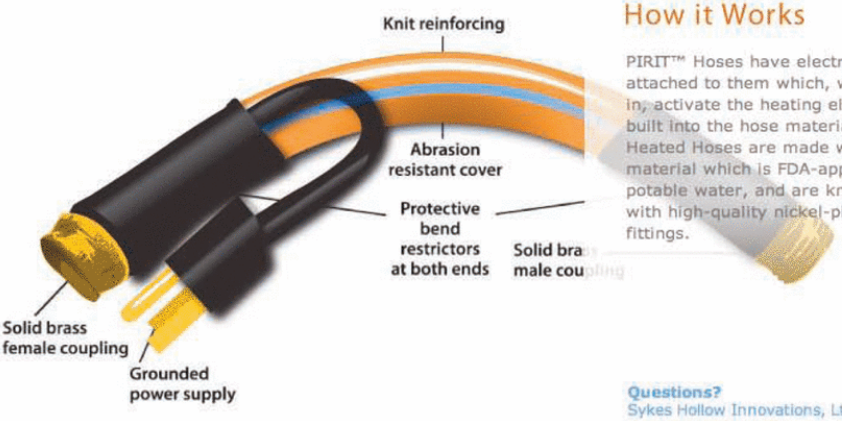
The **PIRIT™ Water Line** is for anyone who needs to use a hose in below-freezing temperatures. Depending on need, leave it plugged in 24-7 or simply plug it in only when in use. The thermostatically controlled Water Line is set to activate the heating element if the ambient temperature outside the hose is +/- 45 degrees F. and to turn off the heating element of the ambient temperature reaches +/- 57 degrees F. If left plugged in, it will never allow water to freeze inside. If left unplugged with water inside, the water will freeze. Just plug it in before use, give it a few minutes (depending on how cold it is outside) to thaw and you'll have running water again.

The PIRIT™ Water Line has been certified to UL and CSA safety standards for outdoor electronic products.

NOW Available in 3 Lengths!

[CLICK HERE] To Order Online

25' *$99* | **50'** *$139* | **100'** *$199*


Knit reinforcing
Abrasion resistant cover
Protective bend restrictors at both ends
Solid brass male coupling
Solid brass female coupling
Grounded power supply

How it Works

PIRIT™ Hoses have electrical cord sets attached to them which, when plugged in, activate the heating element which is built into the hose material. All PIRIT™ Heated Hoses are made with PVC material which is FDA-approved for potable water, and are knit-re-enforced with high-quality nickel-plated brass fittings.

Questions?
Sykes Hollow Innovations, Ltd.
dba PIRIT™ Heated Hose
278 Airport Road
Manchester Center, Vermont 05255
888 PIRITHH (747-4844) or (802) 549-4671
info@pirithose.com

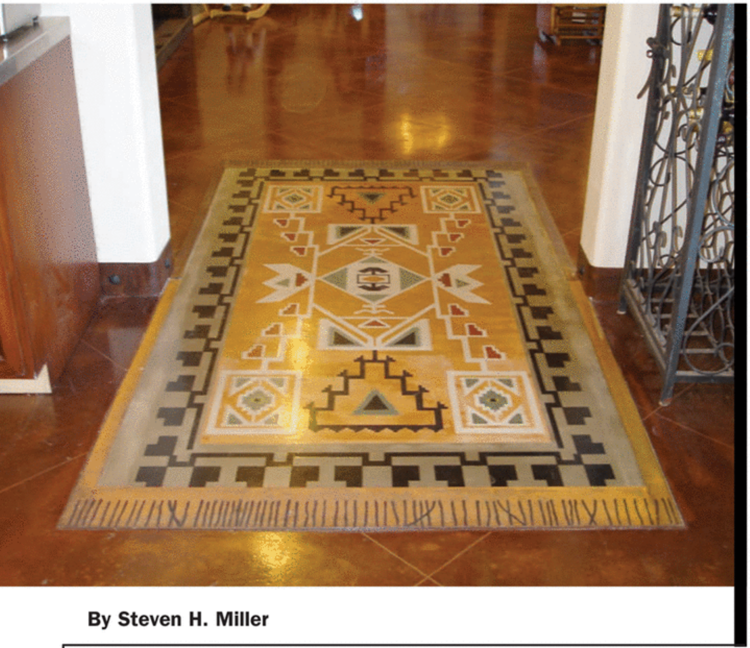
www.pirithose.com

MET c us
UL 499
CSA C22.2 no. 72
E112826

The PIRIT™ Water Line has been certified to UL and CSA safety standards for outdoor electronic products.

The User-Friendly Way to Color Concrete

Reinvent your concrete with simple materials and a little creativity.



No, it's not a Navajo rug, it's the concrete floor, stained using gelled acids, gel stain carrier, and a special stencil called a Flattoo™.

By Steven H. Miller

Concrete can be a lot more beautiful than the usual dull gray mass, if you know what to do with it. Decorative concrete has taken off in many directions over the past decade, an artistic and technological explosion of sorts. In fact, there is even a national conference and trade show devoted exclusively to decorative concrete, 2011 Concrete Decor Show & Spring Training.

Some decorative concrete techniques, such as color, can be done well by a non-professional without expensive tools and machines. Color can transform a floor, countertop, or any other concrete surface. If the tile or carpet has had its day, consider re-inventing the concrete underneath as your new floor.

To give you an idea of the possibilities, we'll describe how to color a floor with an overall base color and a multi-colored graphic design in the center. You will need some simple tools: a bucket, small disposable paintbrushes, small color containers, cotton rags, painter's blue or green tape, plastic sheeting, a wet vac, string mop, scrub brush, and possibly a flat floor-scraper, and of course, personal protection.

GETTING COLOR IN

First of all, you need clean, sound concrete. Small, thin cracks are OK. Massive cracks should be repaired with a cementitious concrete repair mixture.

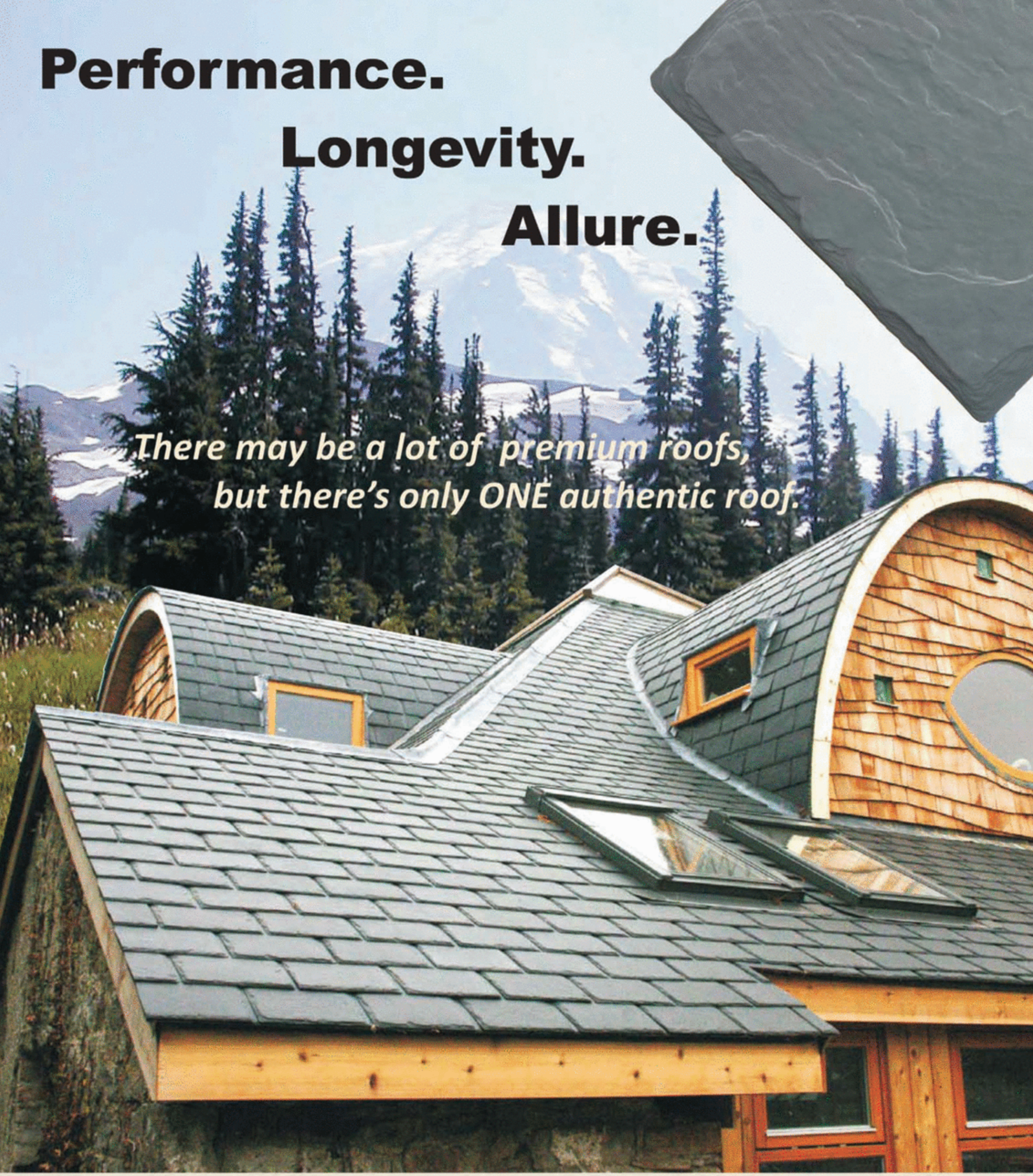
If tile or carpet was previously adhered to the floor, you'll need to remove the old mastic. Try a soy-based mastic remover. Let it work for about four hours, then scrape it off with a flat blade.

Steel-troweled concrete usually has a dense surface. It is too "tight" for color particles to penetrate, so the surface needs to be opened up to expose the more porous concrete just underneath.

Tek Gel™ gelled acids, made by Surface Gel Tek of Mesa, Arizona, are designed for exactly this task. They contain hydrochloric acid in a thick gel. They come in three different strengths, allowing you to etch the surface lightly or aggressively.

Tek Gel For Flattooing (TGF), at 16-percent acid, gives a surface profile described as "soft suede." Tek Gel For Profiling, at 20-percent, opens the surface the equivalent of grinding with 120-grit abrasives, the profile specified by many coating manufacturers for use of their products. HD24, at 24-percent, is like using 80-grit abrasives for a coarser finish.

The material is user-friendly and, although it's designed not to burn the skin, proper protective


Performance.
Longevity.
Allure.
There may be a lot of premium roofs,
but there's only ONE authentic roof.

888-533-3358

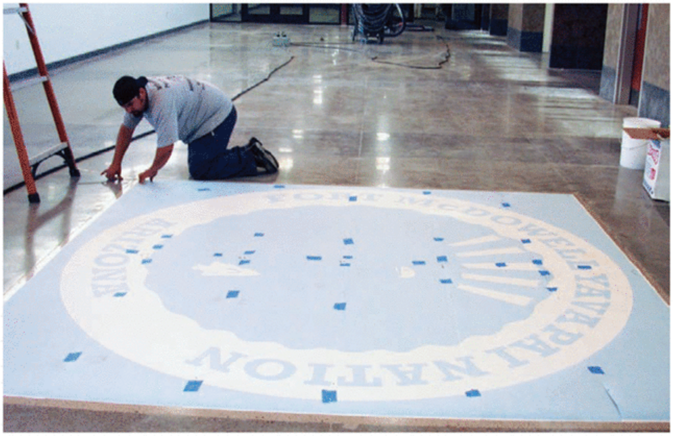
www.authenticroof.com

"The Original"

Authentic Roof™

SYNTHETIC SLATES

- Product Innovated 1988 -



The Flattoo is precisely aligned on the floor. Then, each section is separately adhered to the floor, to prevent color creeping underneath.

gear should always be worn when handling it: gloves, eye protection, clothes you don't mind sacrificing. Provide good ventilation, or wear a respirator. Follow all the manufacturer's safety instructions.

Protect the surrounding area with plastic, taped down firmly at the edges, and be sure to protect any exposed metals.

Gelled acid is spread evenly on the concrete with a low-nap roller or brush. Allow it to work for 5 to 15 minutes. As it reacts with the concrete, it also absorbs contaminants such as grease or oils, leaving a cleaner surface.

Remove the gel with a damp rag, a wet mop, or wet vac. Neutralize the floor with a wet mopping. Neutralize the remaining gel in the bucket with baking soda before flushing it down the sewer.

Then, allow the surface to dry.

Next, apply the base color. Acid stain is easy to apply. It is sprayed on, and multiple colors can be layered. It's available in earthtones, blues and green—approximately 24 colors are possible in all.

Acid stain is not a colorant like dye or pigment. It produces color through a chemical reaction with concrete that takes about four hours. Chemically speaking, concrete is very inconsistent from one spot to another, causing more or less intense color. Acid stain brings out the hidden variegation in the slab, so you don't really know how it will look until the reaction is done and the slab is sealed.

You will need to neutralize the concrete surface. Mix 1/4 cup baking soda in 2 gallons of water. Do not use excessive amounts of baking soda; it will leave a residue. Mop on the neutralizer, scrub it in, suck it up with the wet vac, and repeat until the water runs clear.

You must not walk on the acid-stained floor until it has been neutralized, or your footprints will be there forever. Apply acid-stain from the back of the space to the front so you can escape afterwards. Neutralize going from front to back.

CONTROLLED COLOR

A graphic design can be added to the base two ways: remove base color (using more gelled acid) for a negative space effect, or add other colors, using dye, acid stain or water-based color such as silicate colorant.

To control where base is removed and new color is placed, you can use a stencil specially engineered to work with gelled acids—called a Flattoo™—and a gelled color carrier, Stain Mule™, both companion products of the Tek Gel used to open the floor.

A Flattoo is a laser-cut vinyl pattern with adhesive on one side, so it sticks to the concrete

DECORATIVE CONCRETE TO THE MAX

To learn about these decorative concrete techniques and many more, there is no better opportunity than the 2011 Concrete Decor Show & Spring Training in Nashville, TN, March 15-18, 2011.

It is an entire convention-style show devoted exclusively to decorative concrete. Over 200 exhibitors will be showing all the latest materials, tools and methods. It's a great place to meet decorative concrete artists and learn their tips and tricks, too. The show includes extensive hands-on training workshops at every level from beginner to advanced. The workshops will advance a worthy cause: They will perform a Decorative Concrete Makeover for the Rocketown Youth Community Center, with designs from the Nashville architectural community being executed by workshop students under the guidance of leading decorative concrete experts. For more information, visit www.concretedecorshow.com.

CREATE

with confidence

“Very insightful classes and panels. Great hands-on learning with industry leaders.”

— *Ben McGuire,*
BNC Concrete

There’s nothing like hands-on experience to help you tackle a demanding project. And there’s only one place where you can get decorative concrete training from world-class instructors and find the products and tools you’ll need to get the job done.

Do it right. Join us for the **Concrete Decor Show & Spring Training** – the only trade event dedicated exclusively to decorative concrete.

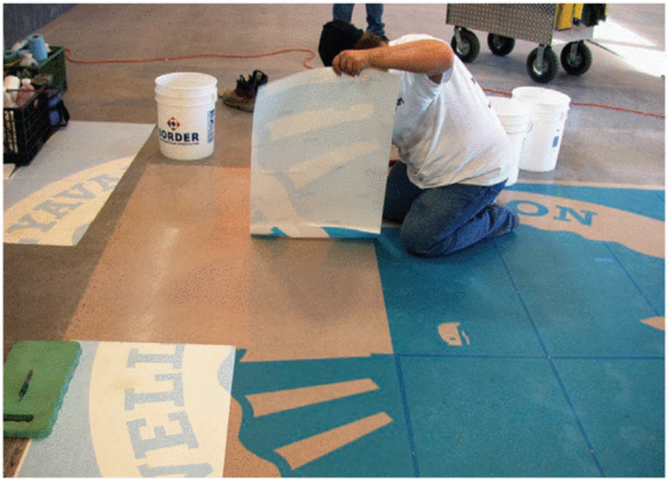
DECORATIVE CONCRETE
CONCRETE Decor SHOW
SPRING TRAINING

Where Decorative Concrete Means Business.

March 15–18, 2011 · Nashville Convention Center · **(877) 935-8906** · www.ConcreteDecorShow.com

SPONSORS

CHENG concrete · Crown POLYMERS · ConcreteNetwork.com · SC SureCrete Design Products · H C · WERKMASTER Ultra Floor Systems · enCOUNTER



The template allows you to selectively remove base color, etching it off with the gelled acid.

surface. Large designs are made in multiple sections, approximately 2-by-6-feet each, with marks, numbers and arrows to help assemble them accurately and easily. You can buy ready-made designs, or have a Flattoo of your own design custom cut.

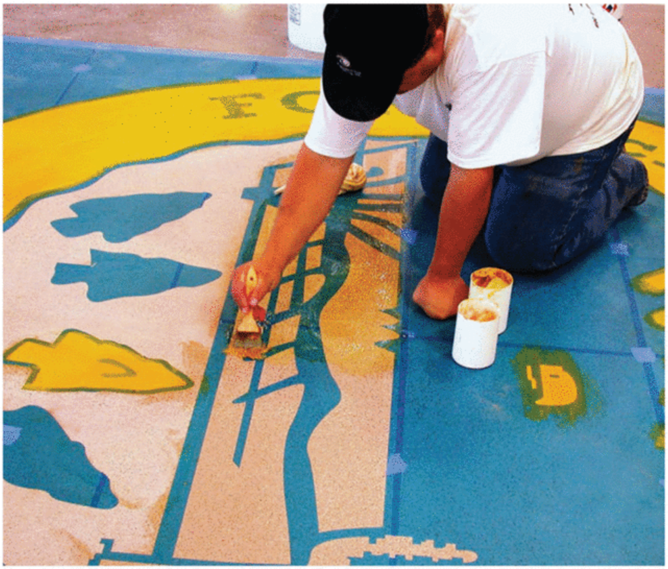
Assemble all the sections of your Flattoo and tape them together into a single sheet. Then you can decide on the right placement on the floor. Consider where the furniture will be, and the alignment with walls, windows, doors, light fixtures or other features of the space. Think carefully, because concrete lasts a long time.

Once positioned, adhere the Flattoo to the concrete according to the manufacturer's directions. Burnish it down well, so that acid or color won't sneak under the edge.

Now, you can selectively remove base color through the "windows" of the template using gelled acid. Put a small amount in a disposable bowl or tray. With a brush in one hand and a damp rag in the other, brush the acid on, then wipe it off to remove color in small increments. Layered base colors can be removed selectively. Let the acid dwell longer to remove more color, all the way to gray concrete if desired. Keep a bucket with clear water handy to rinse the rag.

You can now add other colors into the cleared sections of the Flattoo. Mix your colorant into Stain Mule—a gel almost as thick as creamy peanut butter—in order to keep it where it is placed without spreading. Mix it in a ratio of two parts colorant to one part Stain Mule for horizontal surfaces. Use more Stain Mule for vertical concrete.

Brush on the color mixture; foam brushes will help minimize streaking with some colorants. For acid stains, allow up to four hours to work; reactivity varies with every different slab.



Gelled acid is applied through the windows of the template to remove base color before adding new colors. The acid turns more yellow as it reacts.

TARPX®

FAST • STRONG • SECURE LOAD CONTROL

- All-in-one load covering system for pickup trucks and utility trailers
- Adjustable for most common loads – made of tough, water-resistant, rip-stop nylon
- Goes on in minutes – spread TarpX over the load, attach the hooks, cinch the webbing and GO
- Packs quickly, fits under a seat in its own stuff sack
- No tangled ropes, snapping bungees or flapping tarp

TOLL FREE 877-886-8779

www.tarpx.com

After acid staining, neutralize the floor. With water- or solvent-based colors, simply let it dry.

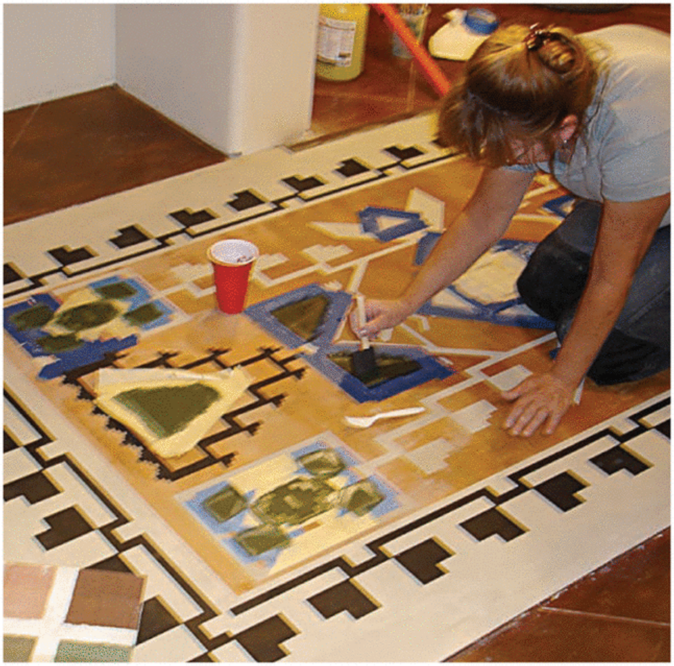
If you're applying multiple colors, protect each color as you go. When the first color is dry, apply a thin coat of sealer and let that dry. The sealer prevents other colors from compromising finished ones. Repeat for each color.

Repeat for each section of the Flattoo. When all colors are completed, remove the Flattoo.

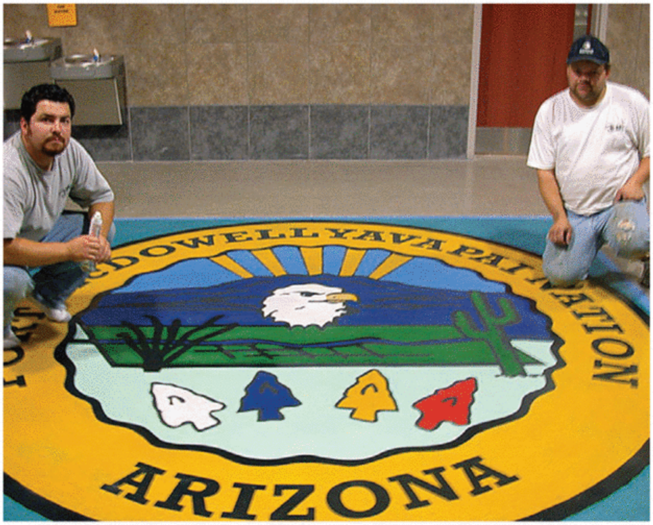
Seal your floor well, according to the sealant manufacturer's directions. Solvent-based sealers work best for acid stains. They bring the color to life. Without it, the color can be dull. In fact, with acid stains, you can't really judge the color until it is sealed.

Then, enjoy your beautiful, unique floor. **EHT**

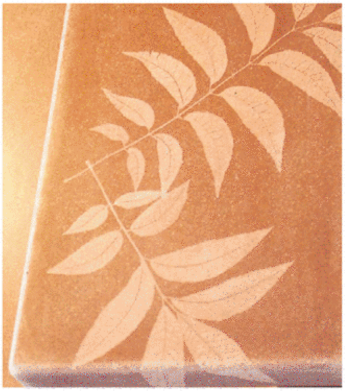
Editor's Note: *Photography courtesy Surface Gel Tek. Visit www.surfacegeltek.com*



Tamryn Doolan, owner of Surface Gel Tek, applies acid stain mixed in Stain Mule.



The completed project should be sealed with a quality sealer. Solvent-based sealers bring out the color of acid stains.



Gelled acid can be used to selectively lighten concrete with integral color (pigments that were mixed into the concrete before it was poured). The leaf-design Flattoo for this integral-color countertop was scanned from a plant in the owner's garden.

The FOOTING TUBE

A division of CLIFFCORP Inc

The ULTIMATE Concrete Pier Form!!

VOTED #1 BY CONTRACTORS!

8"
10/12"
6"
FTB30

Shift Happens!!!

Be Sure Your Project Doesn't!!

Easily Installed in Any Weather

www.foottube.com

- Footing and tube incorporated in single pour for added stability and strength.
- Works in frost prone areas to 5 ft. depths.
- Safety Top keeps pets, rocks, rain, children, etc. from falling into tube prior to pouring concrete.
- Efficient co-ordination of concrete and excavation. No need to strip form or wait to backfill.
- Compaction of backfill material can be done prior to pouring of concrete.
- Easy to use, labour saving installation.
- The form will not break down under wet conditions.
- Tapered design allows frozen ground to move freely and not freeze to pier.

Be sure your project stays where you put it, by starting on the right foundation!!

Made in Canada from
Recyled Polyethylene

Canadian Patent # 2,179,701
US Patent # 6,318,700

CCMC Evaluation # 13309-R
ICC Evaluation # ESR - 2424

HOT PRODUCTS

DIY Dorm Room Remodel

Jake Gillikin took the remodeling of his Auburn University college dorm room into his own hands. Fraternity dorm rooms typically see a lot of mistreatment by college students, sometimes to the point of toxic atrocity. So, when a new student inherits a room from someone else, scouring the place clean makes a lot of sense. Gillikin took that idea even further.

TORE UP, FROM THE FLOOR UP

"Initially I tore down the room to a bare concrete wall, bare concrete floor, and exposed ceiling," says Gillikin. His plan was to completely reconstruct the covering of the walls and floor, and reduce sound transmission in the process. "First, I laid down Dream Home flooring underlayment over the subfloor." Available from Lumber Liquidators, this foam underlayment is 1/8-inch thick and installs beneath floating laminate and engineered wood floors to muffle sound and even-out minor imperfections in the subfloor.

"Second, I laid down the Dream Home water-resistant liner," says Gillikin. "I taped all of the sound absorber and liner sections together with Gorilla Tape." Butting the seams of the underlayment together, rather than overlapping, ensures a flat, even surface for the flooring installation. The 6-mil poly liner protects the floor from damaging moisture that can transfer through the concrete subfloor to the new finished floor.

"Next I installed the snap-lock laminate flooring from Lumber Liquidators, using a basic laminate floor-install kit," says Gillikin. "The kit consists of a rubber mallet, a metal Z-bracket for hammering the floor pieces together, and plastic spacers to correctly align the pieces of flooring against the wall."

Time came to focus on the walls, but this was no standard drywall job. Gillkin opted for insulated wall panels. InSoFast, LLC provides a way to frame and insulate concrete walls, ceilings and floors in a single simple step. These easy-to-install InSoFast panels are 4-by-2 feet and 2 inches thick, which lock together to create an R-10 system. Comprised of closed-cell expanded polystyrene and embedded studs, InSoFast

1-800-FLOORING

The dorm room's new floor required a foam underlayment to cover the concrete subfloor.

SNOSTOP PLUS®
snow & ice protection for all roof types
Snow and ice

SNOW STOPPER
www.snostopplus.com

PEXHEAT.COM

Professional Radiant Floor Design Services & Sales

Radiant Slab

Login and get a Free project quote.

Underfloor Staple-Up

Sleeper Systems

Visit www.pexheat.com or call us at (631) 240-9173

Supplying the Contractor and Do-It-Yourselfer

Snow Melting

Electric Floor Warming

The Radiant Floor Superstore

CALL NOW! 1-888-376-5258

AMERICAN GARAGE

GARAGE FLOORING | GARAGE PLANS | CABINETS & STORAGE | ORGANIZATIONAL PRODUCTS | GARAGE GADGETS | AUTOMOTIVE ACCESSORIES

LOWEST PRICE! FREE SHIPPING! On BLT Roll Out Garage Flooring!

BLT Better Life Technology LLC

American Garage® is a showroom and Internet destination like nothing you have ever seen before. Our garage flooring products help you design the perfect garage and shop space or to just organize and enhance your existing space. American Garage® has focused on a strong mix of quality, service and price...

Click here for the full story.

CLICK FOR MAP

VISIT US AT OUR WAREHOUSE:
6130 ASHEVILLE HWY
PISGAH FOREST, NC 28768

DESIGN THE
PERFECT GARAGE

Specializing in both garage flooring and virtually every other garage accessory, American Garage® was created to help you determine the right garage flooring for your needs, storage cabinets for your specific application and garage organizers of every type and style.

americangarage.com

OUR PARTNERS RaceDeck | BLT G-Floor | COVERCRAFT | hercke | diamondLife | Diamond Garage Interiors | storeWALL HEAVY DUTY | BENCH SOLUTION

YUKON
SINCE 1970

GOT OIL AND GAS PRICE JITTERS?

WE BUILD YOUR SOLUTION TO HIGH HEATING COSTS

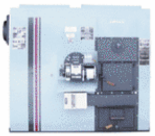
WOOD/COAL COMBINED WITH HI-EFFICIENCY OIL OR GAS FURNACE TECHNOLOGY THAT AUTOMATICALLY STARTS YOUR WOOD BURNING, ALL THERMOSTATICALLY CONTROLLED.

Prices Start at $1,688

Veteran wood burners know Yukon multi-fuel furnaces are the most advanced designed central heating systems that burn wood in combination with gas, oil or electric fuel. These furnaces make wood burning efficient and practical.

CUT YOUR FUEL BILLS TO ALMOST NOTHING - AND HEAT EVERY ROOM EVENLY!

YUKON HAS BEEN PROVIDING HEATING COMFORT AND FUEL SAVINGS FOR NEARLY 40 YEARS!



Yukon Husky
112,000 BTU output
Gas/Wood/Coal or Oil/Wood/Coal

Yukon Polar
151,000 BTU output
Gas/Wood/Coal or Oil/Wood/Coal

Yukon Electric
Electric/Wood/Coal
112,000 BTU output/solid fuel
67,000 BTU output/Electric

Yukon Klondike
112,000 BTU output
Wood or Coal

YUKON INDOOR WOOD FURNACES ARE AN ALTERNATIVE ENERGY HEATING SYSTEM.
THERE ARE MANY TYPES OF FURNACES, SUCH AS, COMBINATION ELECTRIC AND WOOD FURNACES, HOME HEATING BURNERS, AND FORCED AIR FURNACES. YUKON HAS A LARGE LINE OF FURNACES, WOOD AND MULTI-FUEL FURNACE MODELS, COMBINATION GAS AND WOOD/COAL FURNACE, COMBINATION OIL AND WOOD/COAL FURNACE, AND MORE. WHETHER YOU ARE LOOKING FOR A WOOD HEATER OR WOOD BURNING STOVE, YUKON HAS A "WHOLE HOUSE WOOD FURNACE" FOR YOU.

"0" DOWN - NO INTEREST - FOR 180 DAYS
Eligible for up to $1500 bio-mass tax credit

WWW.YUKON-EAGLE.COM OR CALL US TODAY @ 800-358-0060

arkè
fontanot

SPIRAL STAIRS AND MODULAR STAIR CASE KITS

AVAILABLE THROUGHOUT THE USA, ARKE SPIRAL AND MODULAR STAIRCASE KITS CAN BE BUILT IN A DAY BY THE AVERAGE DO-IT-YOURSELF HOME ENTHUSIAST.

◀ THE EUREKA MODEL IS AVAILABLE IN 3 PAINTED COLORS - BLACK, WHITE AND GREY. OUR DURABLE POWDER COAT FINISH IS PERFECT FOR INTERIOR OR EXTERIOR INSTALLATIONS.

ARKE MAKES BUYING AND INSTALLING A SPIRAL STAIR CASE EASY WITH THE FOLLOWING KEY FEATURES:

- ALL-IN-ONE COMPLETE UNITS: TREADS, LANDING, BALUSTERS, HANDRAILS, HARDWARE AND ACCESSORIES INCLUDED
- NOTHING TO PAINT, WELD, STAIN OR SEAL
- IN STOCK FOR IMMEDIATE DELIVERY

www.arkestairs.com